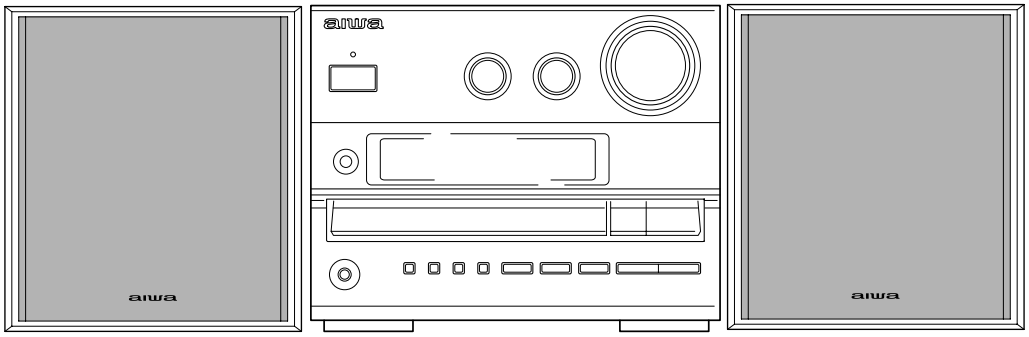
aiwa
SERVICE

# XR-EM60 K(S)
# XR-EM61 EZ(S)



# SERVICE MANUAL

CD STEREO SYSTEM BASIC CD MECHANISM : 3ZG-3 E13NM

| SYSTEM | CD RECEIVER | SPEAKER | REMOTE CONTROLLER |
|---|---|---|---|
| XR–EM60 | CX–LEM60 | SX–LEM60 | RC–CAS04 |
| XR–EM61 | CX–LEM61 | | |

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S/M Code No. 09-025-456-0R1

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# SPECIFICATIONS

## MAIN UNIT CX-LEM60 <K>, CX-LEM61 <EZ>

### TUNER

| | |
|---|---|
| **FM tuning range** | 87.5 MHz to 108 MHz |
| **FM usable sensitivity (IHF)** | 16.8 dBf |
| **FM antenna terminal** | 75 ohms (unbalanced) |
| **MW tuning range** | 531 kHz to 1602 kHz (9 kHz step)<br>530 kHz to 1710 kHz (10 kHz step) |
| **MW usable sensitivity** | 350 µV/m |
| **LW tuning range** | 144 kHz to 290 kHz |
| **LW usable sensitivity** | 1400 µV/m |
| **MW/LW antenna** | Loop antenna |

### AMPLIFIER

| | |
|---|---|
| **Power output** | Rated: 24 W + 24 W<br>(6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500)<br>Reference: 30 W + 30 W<br>(6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)<br>**<EZ ONLY>**<br>DIN MUSIC POWER: 57 W + 57 W |
| **Input** | LINE IN: 500 mV |
| **Outputs** | SPEAKERS: 6 ohms or more<br>PHONES: 32 ohms or more<br>DIGITAL OUT (OPTICAL) jack |

### CD PLAYER

| | |
|---|---|
| **Laser** | Semiconductor laser (l = 780 nm) |
| **D/A converter** | 1 bit dual |
| **Signal-to-noise ratio** | 85 dB (1 kHz, 0 dB) |
| **Wow and flutter** | Unmeasurable |

### GENERAL

| | |
|---|---|
| **Power requirements** | 230 V AC, 50 Hz |
| **Power consumption** | 59 W |
| **Power consumption in standby mode** | |
| | With ECO mode on: 0.6 W<br>With ECO mode off: 15 W |
| **Dimensions (W x H x D)** | 190 x 153 x 320 mm |
| **Weight** | 4.0 kg |

## SPEAKER SYSTEM SX-LEM60

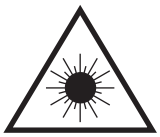
| | |
|---|---|
| **Speakers system** | 2 way, bass reflex (magnetic shielded) |
| **Speaker units** | Woofer: 120 mm cone<br>Tweeter: 25 mm dome |
| **Impedance** | 6 ohms |
| **Dimensions (W x H x D)** | 155 x 250 x 218 mm |
| **Weight** | 2.3 kg |

• Design and specifications are subject to change without notice.

## PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

**WARNING!!**
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

**VAROITUS!**
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

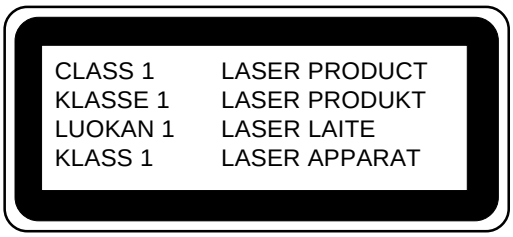
**VARNING!**
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

**CAUTION**
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

**ATTENTION**
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

**ADVARSEL**
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



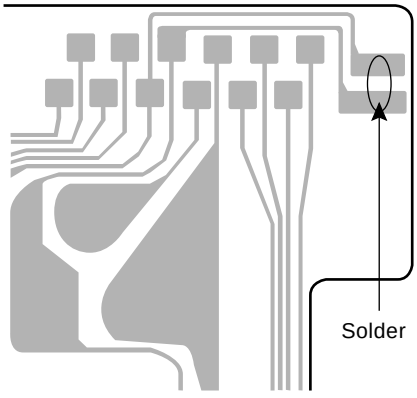

## Precaution to replace Optical block

## (KSS – 213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

CD PICKUP Assy PWB



# ELECTRICAL PARTS LIST (CX – LEM60 / CX – LEM61)

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| AMP | | O | C 0097 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| AMP | | X | C 0099 | 88-108-000-080 | C-JUMPER,U | a | b |
| AMP | | O | C 0103 | 87-A13-056-080 | CAP,E 4.7-50 M FG | a | b |
| AMP | | O | C 0104 | 87-A13-056-080 | CAP,E 4.7-50 M FG | a | b |
| AMP | | O | C 0105 | 87-012-273-080 | C-CAP,U 820P-50 K B | a | b |
| AMP | | O | C 0106 | 87-012-273-080 | C-CAP,U 820P-50 K B | a | b |
| AMP | | O | C 0107 | 87-A12-072-080 | CAP,E 100-25 SMG | a | b |
| AMP | | O | C 0108 | 87-A12-072-080 | CAP,E 100-25 SMG | a | b |
| AMP | | O | C 0109 | 87-012-257-080 | C-CAP,U 47P-50 J UJ | a | b |
| AMP | | O | C 0110 | 87-012-257-080 | C-CAP,U 47P-50 J UJ | a | b |
| AMP | | O | C 0111 | 87-A12-076-080 | CAP,E 22-35 SMG | a | b |
| AMP | | O | C 0112 | 87-A12-076-080 | CAP,E 22-35 SMG | a | b |
| AMP | | O | C 0113 | 87-012-257-080 | C-CAP,U 47P-50 J UJ | a | b |
| AMP | | O | C 0114 | 87-012-257-080 | C-CAP,U 47P-50 J UJ | a | b |
| AMP | | O | C 0117 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| AMP | | O | C 0118 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| AMP | | O | C 0119 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| AMP | | O | C 0120 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| AMP | | O | C 0123 | 87-012-273-080 | C-CAP,U 820P-50 K B | a | b |
| AMP | | O | C 0124 | 87-012-273-080 | C-CAP,U 820P-50 K B | a | b |

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| AMP | | O | C 0133 | 87-012-282-080 | C-CAP,U 4700P-50 K B | a | b |
| AMP | | O | C 0140 | 87-012-278-080 | C-CAP,U 2200P-50 K B | a | b |
| AMP | | O | C 0186 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| AMP | | O | C 0187 | 87-A12-091-080 | CAP,E 10-50 SMG | a | b |
| AMP | | O | C 0188 | 87-A12-091-080 | CAP,E 10-50 SMG | a | b |
| AMP | | O | C 0193 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| AMP | | O | C 0194 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| AMP | | O | CN 0101 | 87-A61-013-010 | CONN,15P H BLK TAC-L15P-A3 | a | b |
| AMP | | S | D 0103 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0104 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0105 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0106 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0107 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0108 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0115 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| AMP | | S | D 0117 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0118 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0119 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0120 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0150 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| AMP | | S | D 0160 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| AMP | | S | D 0185 | 87-070-178-090 | DIODE,1N5402-BD54 | a | b |
| AMP | | S | D 0186 | 87-070-178-090 | DIODE,1N5402-BD54 | a | b |
| AMP | | S | D 0187 | 87-070-136-080 | ZENER,MTZJ5.1B | a | b |
| AMP | | S | D 0188 | 87-017-931-080 | ZENER,MTZJ5.6B | a | b |
| AMP | | S | D 0189 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| AMP | | S | D 0190 | 87-A40-269-080 | C-DIODE,MC2836 | a | b |
| AMP | | S | D 0191 | 87-A40-345-080 | ZENER,MTZJ10C | a | b |
| AMP | | S | D 0192 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0193 | 87-020-465-080 | DIODE,1SS133 | a | b |
| AMP | | S | D 0262 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| AMP | | S | D 0265 | 87-A40-269-080 | C-DIODE,MC2836 | a | b |
| AMP | | O | JR 0123 | 87-012-257-080 | C-CAP,U 47P-50 J UJ | a | b |
| AMP | | O | JR 0124 | 87-012-257-080 | C-CAP,U 47P-50 J UJ | a | b |
| AMP | | S | Q 0103 | 87-A30-075-080 | C-TR,2SA1235F | a | b |
| AMP | | S | Q 0104 | 87-A30-075-080 | C-TR,2SA1235F | a | b |
| AMP | | S | Q 0105 | 87-A30-075-080 | C-TR,2SA1235F | a | b |
| AMP | | S | Q 0106 | 87-A30-075-080 | C-TR,2SA1235F | a | b |
| AMP | | S | Q 0107 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| AMP | | S | Q 0108 | 87-A30-076-080 | C-TR,2SC3052F | a | b |

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| AMP | | S | Q 0109 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| AMP | | S | Q 0110 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| AMP | | S | Q 0111 | 87-A30-672-080 | TR,2N5551C | a | b |
| AMP | | S | Q 0112 | 87-A30-672-080 | TR,2N5551C | a | b |
| AMP | | S | Q 0113 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| AMP | | S | Q 0114 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| AMP | | S | Q 0115 | 87-A30-670-040 | C-TR,SBT5551 | a | b |
| AMP | | S | Q 0116 | 87-A30-670-040 | C-TR,SBT5551 | a | b |
| AMP | | S | Q 0117 | 87-A30-255-010 | TR,2SB1342 | a | b |
| AMP | | S | Q 0118 | 87-A30-255-010 | TR,2SB1342 | a | b |
| AMP | | S | Q 0119 | 87-A30-256-010 | TR,2SD1933 | a | b |
| AMP | | S | Q 0120 | 87-A30-256-010 | TR,2SD1933 | a | b |
| AMP | | S | Q 0123 | 87-A30-669-040 | C-TR,SBT5401 | a | b |
| AMP | | S | Q 0124 | 87-A30-669-040 | C-TR,SBT5401 | a | b |
| AMP | | S | Q 0126 | 87-A30-669-040 | C-TR,SBT5401 | a | b |
| AMP | | S | Q 0127 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| AMP | | S | Q 0128 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| AMP | | S | Q 0130 | 87-A30-670-040 | C-TR,SBT5551 | a | b |
| AMP | | S | Q 0183 | 87-A30-162-010 | FET,2SK2937 | a | b |
| AMP | | S | Q 0184 | 87-A30-162-010 | FET,2SK2937 | a | b |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL | |
|---|---|---|---|---|---|---|---|
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| AMP | | S | Q 0185 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| AMP | | S | Q 0186 | 87-A30-548-040 | C-TR,2SB1218AQRS | a | b |
| AMP | | S | Q 0187 | 87-A30-548-040 | C-TR,2SB1218AQRS | a | b |
| AMP | | S | Q 0259 | 87-A30-548-040 | C-TR,2SB1218AQRS | a | b |
| AMP | | S | Q 0265 | 87-A30-538-040 | C-TR,SRA2202S | a | b |
| AMP | | X | R 0101 | 88-118-222-080 | C-RES,S 2.2K-1/10W J | a | b |
| AMP | | X | R 0102 | 88-118-222-080 | C-RES,S 2.2K-1/10W J | a | b |
| AMP | | X | R 0103 | 88-118-223-080 | C-RES,S 22K-1/10W J | a | b |
| AMP | | X | R 0104 | 88-118-223-080 | C-RES,S 22K-1/10W J | a | b |
| AMP | | X | R 0105 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| AMP | | X | R 0106 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| AMP | | X | R 0107 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| AMP | | X | R 0108 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| AMP | | X | R 0109 | 88-121-101-080 | RES,100-1/8W J | a | b |
| AMP | | X | R 0110 | 88-121-101-080 | RES,100-1/8W J | a | b |
| AMP | | X | R 0111 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| AMP | | X | R 0112 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| AMP | | X | R 0113 | 88-118-183-080 | C-RES,S 18K-1/10W J | a | b |
| AMP | | X | R 0114 | 88-118-183-080 | C-RES,S 18K-1/10W J | a | b |
| AMP | | X | R 0117 | 88-121-103-080 | RES,10K-1/8W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| AMP | | X | R 0118 | 88-121-103-080 | RES,10K-1/8W J | a | b |
| AMP | | X | R 0119 | 88-118-101-080 | C-RES,S 100-1/10W J | a | b |
| AMP | | X | R 0120 | 88-118-101-080 | C-RES,S 100-1/10W J | a | b |
| AMP | | X | R 0121 | 88-118-101-080 | C-RES,S 100-1/10W J | a | b |
| AMP | | X | R 0122 | 88-118-101-080 | C-RES,S 100-1/10W J | a | b |
| AMP | | X | R 0123 | 88-128-222-080 | C-RES, 2.2K-1/8W J | a | b |
| AMP | | X | R 0124 | 88-128-222-080 | C-RES, 2.2K-1/8W J | a | b |
| AMP | | X | R 0125 | 88-128-222-080 | C-RES, 2.2K-1/8W J | a | b |
| AMP | | X | R 0126 | 88-128-222-080 | C-RES, 2.2K-1/8W J | a | b |
| AMP | | X | R 0127 | 88-118-390-080 | C-RES,S 39-1/10W J | a | b |
| AMP | | X | R 0128 | 88-118-390-080 | C-RES,S 39-1/10W J | a | b |
| AMP | | O | R 0129 | 87-A00-258-080 | RES,M/F 0.22-1W J | a | b |
| AMP | | O | R 0130 | 87-A00-258-080 | RES,M/F 0.22-1W J | a | b |
| AMP | | O | R 0131 | 87-A00-258-080 | RES,M/F 0.22-1W J | a | b |
| AMP | | O | R 0132 | 87-A00-258-080 | RES,M/F 0.22-1W J | a | b |
| AMP | | X | R 0133 | 88-108-332-080 | C-RES,U 3.3K-1/16W J | a | b |
| AMP | | X | R 0134 | 88-108-332-080 | C-RES,U 3.3K-1/16W J | a | b |
| AMP | | X | R 0135 | 88-108-152-080 | C-RES,U 1.5K-1/16W J | a | b |
| AMP | | X | R 0136 | 88-108-152-080 | C-RES,U 1.5K-1/16W J | a | b |
| AMP | | X | R 0137 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| AMP | | X | R 0138 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| AMP | | X | R 0141 | 88-118-102-080 | C-RES,S 1K-1/10W J | a | b |
| AMP | | X | R 0142 | 88-118-102-080 | C-RES,S 1K-1/10W J | a | b |
| AMP | | X | R 0151 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0152 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0155 | 88-108-392-080 | C-RES,U 3.9K-1/16W J | a | b |
| AMP | | X | R 0156 | 88-108-392-080 | C-RES,U 3.9K-1/16W J | a | b |
| AMP | | X | R 0157 | 88-121-472-080 | RES,4.7K-1/8W J | a | b |
| AMP | | X | R 0158 | 88-128-272-080 | C-RES, 2.7K-1/8W J | a | b |
| AMP | | X | R 0159 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| AMP | | X | R 0160 | 88-118-103-080 | C-RES,S 10K-1/10W J | a | b |
| AMP | | X | R 0161 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| AMP | | X | R 0162 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| AMP | | X | R 0163 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| AMP | | X | R 0164 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| AMP | | X | R 0165 | 88-108-152-080 | C-RES,U 1.5K-1/16W J | a | b |
| AMP | | X | R 0166 | 88-108-152-080 | C-RES,U 1.5K-1/16W J | a | b |
| AMP | | X | R 0167 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| AMP | | X | R 0168 | 88-118-473-080 | C-RES,S 47K-1/10W J | a | b |
| AMP | | X | R 0169 | 88-118-271-080 | C-RES,S 270-1/10W J | a | b |
| AMP | | X | R 0170 | 88-118-271-080 | C-RES,S 270-1/10W J | a | b |
| AMP | | X | R 0171 | 88-118-222-080 | C-RES,S 2.2K-1/10W J | a | b |
| AMP | | X | R 0172 | 88-118-222-080 | C-RES,S 2.2K-1/10W J | a | b |
| AMP | | X | R 0173 | 88-118-152-080 | C-RES,S 1.5K-1/10W J | a | b |
| AMP | | X | R 0174 | 88-118-152-080 | C-RES,S 1.5K-1/10W J | a | b |
| AMP | | X | R 0175 | 88-118-331-080 | C-RES,S 330-1/10W J | a | b |
| AMP | | X | R 0176 | 88-118-331-080 | C-RES,S 330-1/10W J | a | b |
| AMP | | X | R 0177 | 88-128-222-080 | C-RES, 2.2K-1/8W J | a | b |
| AMP | | X | R 0178 | 88-118-103-080 | C-RES,S 10K-1/10W J | a | b |
| AMP | | X | R 0179 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| AMP | | X | R 0180 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| AMP | | X | R 0184 | 88-118-102-080 | C-RES,S 1K-1/10W J | a | b |
| AMP | | X | R 0185 | 88-118-103-080 | C-RES,S 10K-1/10W J | a | b |
| AMP | | X | R 0186 | 88-118-222-080 | C-RES,S 2.2K-1/10W J | a | b |
| AMP | | X | R 0187 | 88-108-332-080 | C-RES,U 3.3K-1/16W J | a | b |
| AMP | | X | R 0188 | 88-118-102-080 | C-RES,S 1K-1/10W J | a | b |
| AMP | | X | R 0189 | 88-128-272-080 | C-RES, 2.7K-1/8W J | a | b |
| AMP | | X | R 0190 | 88-128-272-080 | C-RES, 2.7K-1/8W J | a | b |
| AMP | | X | R 0192 | 88-128-222-080 | C-RES, 2.2K-1/8W J | a | b |
| AMP | | X | R 0194 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL | |
|---|---|---|---|---|---|---|---|
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| AMP | | X | R 0195 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0196 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0197 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0198 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0199 | 88-108-225-080 | C-RES,U 2.2M-1/16W J | a | b |
| AMP | | X | R 0252 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| AMP | | X | R 0257 | 88-108-182-080 | C-RES,U 1.8K-1/16W J | a | b |
| AMP | | X | R 0259 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| AMP | | X | R 0260 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0266 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| AMP | | X | R 0268 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| AMP | | X | R 0269 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| AMP | | X | R 0271 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | X | R 0272 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| AMP | | O | TH 0101 | 87-A91-042-080 | C-THMS,100K 55001 | a | b |
| AMP | | O | TH 0102 | 87-A91-042-080 | C-THMS,100K 55001 | a | b |
| FRONT | | O | C 0501 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| FRONT | | O | C 0502 | 87-A12-091-080 | CAP,E 10-50 SMG | a | b |
| FRONT | | O | C 0503 | 87-A12-069-080 | CAP,E 22-25 SMG | a | b |
| FRONT | | O | C 0504 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| FRONT | | O | C 0505 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| FRONT | | O | C 0506 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| FRONT | | O | C 0507 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| FRONT | | O | C 0508 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| FRONT | | O | C 0509 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| FRONT | | O | C 0510 | 87-A12-069-080 | CAP,E 22-25 SMG | a | b |
| FRONT | | O | CN 0501 | 87-099-720-010 | CONN,30P BLK TYK-B(P) | a | b |
| FRONT | | O | CN 0502 | 87-099-754-010 | CONN,13P H 9604 | a | b |
| FRONT | | O | CN 0503 | 87-A60-667-010 | CONN,3P H 2MM JMT | a | b |
| FRONT | | O | D 0501 | 87-A40-317-080 | LED,SLR-342VCT31 RED | a | b |
| FRONT | | O | FFC0502 | 88-913-221-110 | FF-CABLE, 13P 1.25 220MM | a | b |
| FRONT | | O | FL 0501 | 8C-CL4-630-010 | FL,HNA-10SM19 | a | b |
| FRONT | | S | IC 0501 | 87-A22-043-010 | IC,SPS-440-1-E1 | a | b |
| FRONT | | X | R 0501 | 88-108-563-080 | C-RES,U 56K-1/16W J | a | b |
| FRONT | | X | R 0502 | 88-108-221-080 | C-RES,U 220-1/16W J | a | b |
| FRONT | | X | R 0503 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0504 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0505 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0506 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0507 | 88-108-223-080 | C-RES,U 22K-1/16W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| FRONT | | X | R 0509 | 88-108-272-080 | C-RES,U 2.7K-1/16W J | a | b |
| FRONT | | X | R 0510 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0511 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0512 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0513 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0514 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0515 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0516 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0517 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0518 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0519 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0520 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0521 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0522 | 88-108-223-080 | C-RES,U 22K-1/16W J | a | b |
| FRONT | | X | R 0523 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0524 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0525 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0526 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0527 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0528 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| FRONT | | X | R 0529 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0530 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0531 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0532 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0533 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | X | R 0534 | 88-108-223-080 | C-RES,U 22K-1/16W J | a | b |
| FRONT | | X | R 0535 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0536 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| FRONT | | O | R 0538 | 87-022-239-080 | C-RES,U 10K-1/16W F | a | b |
| FRONT | | O | R 0539 | 87-022-239-080 | C-RES,U 10K-1/16W F | a | b |
| FRONT | | X | R 0540 | 88-108-272-080 | C-RES,U 2.7K-1/16W J | a | b |
| FRONT | | X | R 0541 | 88-108-272-080 | C-RES,U 2.7K-1/16W J | a | b |
| FRONT | | X | R 0542 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| FRONT | | X | R 0543 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| FRONT | | X | R 0544 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0545 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| FRONT | | X | R 0546 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0547 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0548 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X | R 0549 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| FRONT | | X R | 0550 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X R | 0551 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X R | 0552 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X R | 0553 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | X R | 0555 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| FRONT | | O S | 0501 | 87-A92-353-010 | SW,RTRY RE0123PVB25FINA1-2 | a | b |
| FRONT | | O S | 0502 | 87-A92-353-010 | SW,RTRY RE0123PVB25FINA1-2 | a | b |
| FRONT | | O S | 0503 | 87-A92-291-010 | SW,RTRY RE121PVB25FINB1-24E | a | b |
| FRONT | | O S | 0505 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| FRONT | | O S | 0507 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| FRONT | | O S | 0508 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| HP | | O CN | 0602 | 87-099-407-010 | CONN,7P V WHT EH | a | b |
| HP | | O J | 0603 | 87-A61-821-010 | JACK,3.5 BLK ST W/SW GLD | a | b |
| KEY | | X R | 0554 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| KEY | | X R | 0556 | 88-108-392-080 | C-RES,U 3.9K-1/16W J | a | b |
| KEY | | X R | 0557 | 88-108-392-080 | C-RES,U 3.9K-1/16W J | a | b |
| KEY | | X R | 0558 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| KEY | | X R | 0559 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| KEY | | X R | 0560 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| KEY | | X R | 0561 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| KEY | | O S | 0509 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0510 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0511 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0512 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0513 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0514 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0515 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0516 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O S | 0517 | 87-A90-095-080 | SW,TACT EVQ11G04M | a | b |
| KEY | | O CNA | 0501 | 88-805-030-820 | CONN ASSY,3P 80 | a | b |
| MAIN | | O C | 0003 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| MAIN | | O C | 0004 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| MAIN | | O C | 0005 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| MAIN | | O C | 0006 | 87-A12-317-080 | C-CAP,U 0.1-50 Z F | a | b |
| MAIN | | O C | 0009 | 87-010-759-080 | C-CAP,U 0.1-25 Z F | a | b |
| MAIN | | O C | 0010 | 87-010-759-080 | C-CAP,U 0.1-25 Z F | a | b |
| MAIN | | O C | 0011 | 87-010-759-080 | C-CAP,U 0.1-25 Z F | a | b |
| MAIN | | O C | 0012 | 87-010-759-080 | C-CAP,U 0.1-25 Z F | a | b |
| MAIN | | O C | 0019 | 87-016-051-000 | CAP,E 2200-35 M SMG | a | b |
| MAIN | | O C | 0020 | 87-016-051-000 | CAP,E 2200-35 M SMG | a | b |
| MAIN | | O C | 0021 | 87-010-928-000 | CAP,E 4700-25 M SMG | a | b |
| MAIN | | O C | 0022 | 87-010-928-000 | CAP,E 4700-25 M SMG | a | b |
| MAIN | | O C | 0025 | 87-A12-095-080 | CAP,E 100-50 SMG | a | b |
| MAIN | | O C | 0026 | 87-A12-095-080 | CAP,E 100-50 SMG | a | b |
| MAIN | | O C | 0030 | 87-A12-079-080 | CAP,E 100-35 SMG | a | b |
| MAIN | | O C | 0031 | 87-A12-072-080 | CAP,E 100-25 SMG | a | b |
| MAIN | | O C | 0037 | 87-A12-079-080 | CAP,E 100-35 SMG | a | b |
| MAIN | | O C | 0038 | 87-012-282-080 | C-CAP,U 4700P-50 K B | a | b |
| MAIN | | O C | 0045 | 87-010-759-080 | C-CAP,U 0.1-25 Z F | a | b |
| MAIN | | O C | 0046 | 87-A12-068-080 | CAP,E 470-16 SMG | a | b |
| MAIN | | O C | 0047 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0050 | 87-A12-068-080 | CAP,E 470-16 SMG | a | b |
| MAIN | | O C | 0051 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0052 | 87-A12-068-080 | CAP,E 470-16 SMG | a | b |
| MAIN | | O C | 0054 | 87-A13-061-080 | CAP,E 330-16 M ASF WHT | a | b |
| MAIN | | O C | 0060 | 87-A12-089-080 | CAP,E 3.3-50 SMG | a | b |
| MAIN | | O C | 0061 | 87-A12-071-080 | CAP,E 47-25 SMG | a | b |
| MAIN | | O C | 0083 | 87-A12-074-080 | CAP,E 470-25 SMG | a | b |
| MAIN | | O C | 0301 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0302 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0303 | 87-A12-089-080 | CAP,E 3.3-50 SMG | a | b |
| MAIN | | O C | 0304 | 87-A12-090-080 | CAP,E 4.7-50 SMG | a | b |
| MAIN | | O C | 0305 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0306 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0307 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O C | 0308 | 87-010-992-080 | C-CAP,S 0.047-25 K B MK212 | a | b |
| MAIN | | O C | 0309 | 87-A12-089-080 | CAP,E 3.3-50 SMG | a | b |
| MAIN | | O C | 0310 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | O C | 0311 | 87-010-992-080 | C-CAP,S 0.047-25 K B MK212 | a | b |
| MAIN | | O C | 0312 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O C | 0313 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0314 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O C | 0315 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0316 | 87-012-188-080 | C-CAP,U 47P-50 J CH | a | b |
| MAIN | | O C | 0317 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O C | 0318 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O C | 0319 | 87-012-282-080 | C-CAP,U 4700P-50 K B | a | b |
| MAIN | | O C | 0321 | 87-012-172-080 | C-CAP,U 10P-50 D CH | a | b |
| MAIN | | O C | 0322 | 87-A12-091-080 | CAP,E 10-50 SMG | a | b |
| MAIN | | O C | 0323 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| MAIN | | O | C 0325 | 87-012-284-080 | C-CAP,U 6800P-50 K B GRM | a | b |
| MAIN | | O | C 0326 | 87-012-169-080 | C-CAP,U 7P-50 D CH | a | b |
| MAIN | | O | C 0327 | 87-A12-087-080 | CAP,E 1-50 SMG | a | b |
| MAIN | | O | C 0328 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0329 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O | C 0331 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O | C 0332 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0333 | 87-012-188-080 | C-CAP,U 47P-50 J CH | a | b |
| MAIN | | O | C 0334 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0335 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0336 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0337 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0338 | 87-A13-060-080 | CAP,E 220-10 M ASF WHT | a | b |
| MAIN | | O | C 0339 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O | C 0340 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0341 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0342 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0343 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O | C 0344 | 87-012-180-080 | C-CAP,U 22P-50 J CH | a | b |
| MAIN | | O | C 0345 | 87-A12-091-080 | CAP,E 10-50 SMG | a | b |
| MAIN | | O | C 0347 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0348 | 87-A12-091-080 | CAP,E 10-50 SMG | a | b |
| MAIN | | O | C 0349 | 87-A12-088-080 | CAP,E 2.2-50 SMG | a | b |
| MAIN | | O | C 0351 | 87-A13-057-080 | CAP,E 10-50 M FG | a | b |
| MAIN | | O | C 0352 | 87-A13-057-080 | CAP,E 10-50 M FG | a | b |
| MAIN | | O | C 0355 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O | C 0356 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0357 | 87-A12-062-080 | CAP,E 100-10 SMG | a | b |
| MAIN | | O | C 0358 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0365 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0367 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0370 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | O | C 0371 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| MAIN | | O | C 0374 | 87-012-279-080 | C-CAP,U 2700P-50 K B GRM | a | b |
| MAIN | | O | C 0375 | 87-012-279-080 | C-CAP,U 2700P-50 K B GRM | a | b |
| MAIN | | O | C 0401 | 87-012-270-080 | C-CAP,U 470P-50 K B | a | b |
| MAIN | | O | C 0402 | 87-A12-094-080 | CAP,E 47-50 SMG | a | b |
| MAIN | | O | C 0403 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0405 | 87-012-174-080 | C-CAP,U 12P-50 J CH | a | b |
| MAIN | | O | C 0406 | 87-A10-781-080 | C-CAP,U 0.15-10 K B | a | b |
| MAIN | | O | C 0407 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0408 | 87-012-184-080 | C-CAP,U 33P-50 J CH | a | b |
| MAIN | | O | C 0409 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0410 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | O | C 0411 | 87-A12-063-080 | CAP,E 220-10 SMG | a | b |
| MAIN | | O | C 0412 | 87-012-287-080 | C-CAP,U 0.015-25 Z F | a | b |
| MAIN | | O | C 0413 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | O | C 0414 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0415 | 87-010-829-080 | C-CAP,U 0.047-16 Z F | a | b |
| MAIN | | O | C 0601 | 87-A13-044-080 | CAP,E 100-16 M VR-GSO | a | b |
| MAIN | | O | C 0602 | 87-A13-044-080 | CAP,E 100-16 M VR-GSO | a | b |
| MAIN | | O | C 0607 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | O | C 0608 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | O | C 0609 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | O | C 0610 | 87-012-274-080 | C-CAP,U 1000P-50 K B | a | b |
| MAIN | | X | C 0615 | 88-707-939-810 | CAP,M 0.22-50 J TF | a | b |
| MAIN | | X | C 0616 | 88-707-939-810 | CAP,M 0.22-50 J TF | a | b |
| MAIN | | X | C 0617 | 88-707-939-810 | CAP,M 0.22-50 J TF | a | b |
| MAIN | | X | C 0618 | 88-707-939-810 | CAP,M 0.22-50 J TF | a | b |
| MAIN | | O | C 0619 | 87-A13-058-080 | CAP,E 47-25 M FW | a | b |
| MAIN | | O | C 0620 | 87-A13-058-080 | CAP,E 47-25 M FW | a | b |
| MAIN | | O | C 0621 | 87-012-188-080 | C-CAP,U 47P-50 J CH | a | b |
| MAIN | | O | C 0622 | 87-012-188-080 | C-CAP,U 47P-50 J CH | a | b |
| MAIN | | O | C 0625 | 87-012-272-080 | C-CAP,U 680P-50 K B GRM | a | b |
| MAIN | | O | C 0626 | 87-012-272-080 | C-CAP,U 680P-50 K B GRM | a | b |
| MAIN | | O | C 0627 | 87-012-269-080 | C-CAP,U 390P-50 K B | a | b |
| MAIN | | O | C 0628 | 87-012-269-080 | C-CAP,U 390P-50 K B | a | b |
| MAIN | | O | C 0631 | 87-012-271-080 | C-CAP,U 560P-50 K B | a | b |
| MAIN | | O | C 0632 | 87-012-271-080 | C-CAP,U 560P-50 K B | a | b |
| MAIN | | O | C 0650 | 87-A12-061-080 | CAP,E 47-10 SMG | a | b |
| MAIN | | O | C 0651 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0661 | 87-012-336-080 | C-CAP,U 330P-50 J SL | a | b |
| MAIN | | O | C 0662 | 87-012-336-080 | C-CAP,U 330P-50 J SL | a | b |
| MAIN | | O | C 0673 | 87-A12-376-080 | CAP,M 0.1-100 J CP | a | b |
| MAIN | | O | C 0674 | 87-A12-376-080 | CAP,M 0.1-100 J CP | a | b |
| MAIN | | O | C 0675 | 87-A12-376-080 | CAP,M 0.1-100 J CP | a | b |
| MAIN | | O | C 0676 | 87-A12-376-080 | CAP,M 0.1-100 J CP | a | b |
| MAIN | | O | C 0677 | 87-012-286-080 | C-CAP,U 0.01-25 K B | a | b |
| MAIN | | O | C 0679 | 87-018-133-080 | CAP,TC U 4700P-16 N X UP050 | a | b |
| MAIN | | O | C 0680 | 87-018-133-080 | CAP,TC U 4700P-16 N X UP050 | a | b |

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C = Components marked
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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| MAIN | | O | C 0684 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a | b |
| MAIN | | O | C 0861 | 87-A12-091-080 | CAP,E 10-50 SMG | . | b |
| MAIN | | O | C 0862 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | . | b |
| MAIN | | O | C 0863 | 87-012-199-080 | C-CAP,U 220P-50 J CH | . | b |
| MAIN | | O | C 0864 | 87-012-199-080 | C-CAP,U 220P-50 J CH | . | b |
| MAIN | | O | C 0865 | 87-012-274-080 | C-CAP,U 1000P-50 K B | . | b |
| MAIN | | O | C 0866 | 87-012-270-080 | C-CAP,U 470P-50 K B | . | b |
| MAIN | | O | C 0867 | 87-012-286-080 | C-CAP,U 0.01-25 K B | . | b |
| MAIN | | O | C 0868 | 87-A12-091-080 | CAP,E 10-50 SMG | . | b |
| MAIN | | O | C 0869 | 87-012-286-080 | C-CAP,U 0.01-25 K B | . | b |
| MAIN | | O | C 0870 | 87-012-184-080 | C-CAP,U 33P-50 J CH | . | b |
| MAIN | | O | C 0871 | 87-012-180-080 | C-CAP,U 22P-50 J CH | . | b |
| MAIN | | O | C 0872 | 87-012-280-080 | C-CAP,U 3300P-50 K B | a | b |
| MAIN | | O | C 0873 | 87-012-280-080 | C-CAP,U 3300P-50 K B | a | b |
| MAIN | | O | CN 0301 | 87-A60-424-010 | CONN,16P V TOC-B | a | b |
| MAIN | | O | CN 0302 | 87-A60-061-010 | CONN,06P V 9604S-06C | a | b |
| MAIN | | O | CN 0303 | 87-A60-062-010 | CONN,05P V 9604S-05C | a | b |
| MAIN | | O | CN 0401 | 87-099-719-010 | CONN,30P H BLK TYK-B(X) | a | b |
| MAIN | | O | CN 0402 | 87-099-015-010 | CONN,13P V BLK 6216 | a | b |
| MAIN | | O | CN 0601 | 87-A60-189-010 | CONN,16P V TUC-P16P-B1 | a | b |
| MAIN | | O | CN 0603 | 87-A60-998-010 | CONN,15P V BLK TAC-L15X-A3 | a | b |
| MAIN | | O | CNA0001 | 8C-CL4-650-010 | CONN ASSY,9P SUPPLY | a | b |
| MAIN | | O | CNA0601 | 8C-CL4-651-010 | CONN ASSY,7P HP EH | a | b |
| MAIN | | S | D 0001 | 87-A40-838-090 | DIODE,G3SBA60L-6088 | a | b |
| MAIN | | S | D 0002 | 87-A40-838-090 | DIODE,G3SBA60L-6088 | a | b |
| MAIN | | S | D 0024 | 87-070-274-080 | DIODE,1N4003 SEM | a | b |
| MAIN | | S | D 0027 | 87-070-274-080 | DIODE,1N4003 SEM | a | b |
| MAIN | | S | D 0029 | 87-002-743-080 | ZENER,MTZJ33B | a | b |
| MAIN | | S | D 0033 | 87-070-274-080 | DIODE,1N4003 SEM | a | b |
| MAIN | | S | D 0041 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| MAIN | | S | D 0042 | 87-A40-269-080 | C-DIODE,MC2836 | a | b |
| MAIN | | S | D 0061 | 87-020-465-080 | DIODE,1SS133 | a | b |
| MAIN | | S | D 0063 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| MAIN | | S | D 0064 | 87-A40-269-080 | C-DIODE,MC2836 | a | b |
| MAIN | | S | D 0071 | 87-A40-269-080 | C-DIODE,MC2836 | a | b |
| MAIN | | S | D 0072 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| MAIN | | S | D 0076 | 87-A40-269-080 | C-DIODE,MC2836 | a | b |
| MAIN | | S | D 0077 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| MAIN | | S | D 0301 | 87-070-136-080 | ZENER,MTZJ5.1B | a | b |
| MAIN | | S | D 0302 | 87-A40-003-080 | ZENER,MTZJ4.3A | a | b |
| MAIN | | S | D 0401 | 87-017-931-080 | ZENER,MTZJ5.6B | a | b |
| MAIN | | S | D 0402 | 87-020-465-080 | DIODE,1SS133 | a | b |
| MAIN | | S | D 0403 | 87-020-465-080 | DIODE,1SS133 | a | b |
| MAIN | | S | D 0404 | 87-A40-270-080 | C-DIODE,MC2838 | a | b |
| MAIN | | S | D 0601 | 87-A40-243-080 | ZENER,MTZ J 4.7BT-72 | a | b |
| MAIN | | S | D 0602 | 87-A40-243-080 | ZENER,MTZ J 4.7BT-72 | a | b |
| MAIN | | S | D 0603 | 87-020-465-080 | DIODE,1SS133 | a | b |
| MAIN | | S | D 0604 | 87-A40-243-080 | ZENER,MTZ J 4.7BT-72 | a | b |
| MAIN | | S | D 0861 | 87-020-465-080 | DIODE,1SS133 | . | b |
| MAIN | | O | FFC0301 | 8C-CL4-652-010 | FF-CABLE,16P 1.00 | a | b |
| MAIN | | O | FFC0302 | 88-906-101-110 | FF-CABLE, 6P 1.25 | a | b |
| MAIN | | O | FFC0303 | 88-905-231-110 | FF-CABLE, 5P 1.25 230MM | a | b |
| MAIN | | S | IC 0001 | 87-001-576-010 | IC,NJM7812FA | a | b |
| MAIN | | S | IC 0002 | 87-A21-364-010 | IC,NJM7806FA(A) | a | b |
| MAIN | | S | IC 0301 | 87-A22-242-030 | C-IC,LC78646E | a | b |
| MAIN | | S | IC 0302 | 87-A22-251-040 | C-IC,BA5826FP | a | b |
| MAIN | | S | IC 0303 | 87-002-394-010 | IC,LB1641 | a | b |
| MAIN | | S | IC 0401 | 8C-CL4-601-030 | C-IC,LC876748A-5Z30 | a | b |
| MAIN | | S | IC 0601 | 87-A22-264-040 | C-IC,BD3882FV | a | b |
| MAIN | | S | IC 0602 | 87-017-825-010 | IC,GP1F32T | a | b |
| MAIN | | S | IC 0860 | 87-A20-440-040 | C-IC,BU1920FS | . | b |
| MAIN | | O | J 0601 | 87-A61-711-010 | JACK,PIN 2P MSP- 242V-01 PBSN | a | b |
| MAIN | | O | J 0602 | 87-A60-568-010 | JACK,PIN 3P B/W/R HSP-243V19 | a | b |
| MAIN | | O | J 0605 | 87-A61-712-010 | TERMINAL, 4P SP MSP-324V1-01 | a | b |
| MAIN | | O | JW 0411 | 87-008-372-080 | FLTR,EMI BL01 RN1 | a | b |
| MAIN | | O | JW 0421 | 87-008-372-080 | FLTR,EMI BL01 RN1 | a | b |
| MAIN | | O | L 0301 | 87-003-102-080 | COIL,10UH J LAL02 | a | b |
| MAIN | | O | L 0302 | 87-003-102-080 | COIL,10UH J LAL02 | a | b |
| MAIN | | O | L 0401 | 87-A50-333-010 | COIL,OSC 9.43MHZ | a | b |
| MAIN | | O | L 0601 | 87-A50-610-010 | COIL,1UH K(MDEC) | a | b |
| MAIN | | O | L 0602 | 87-A50-610-010 | COIL,1UH K(MDEC) | a | b |
| MAIN | | O | L 0861 | 87-003-098-080 | COIL,2.2UH K LAL02 | . | b |
| MAIN | | S | Q 0001 | 87-A30-494-080 | TR,2SA1980G | a | b |
| MAIN | | S | Q 0002 | 87-A30-494-080 | TR,2SA1980G | a | b |
| MAIN | | S | Q 0003 | 89-406-555-080 | TR,2SD655E | a | b |
| MAIN | | S | Q 0008 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| MAIN | | S | Q 0014 | 87-A30-548-040 | C-TR,2SB1218AQRS | a | b |
| MAIN | | S | Q 0060 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| MAIN | | S | Q 0061 | 87-A30-548-040 | C-TR,2SB1218AQRS | a | b |
| MAIN | | S | Q 0062 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL | |
|---|---|---|---|---|---|---|---|
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | S | Q 0063 | 87-A30-548-040 | C-TR,2SB1218AQRS | a | b |
| MAIN | | S | Q 0064 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| MAIN | | S | Q 0301 | 89-113-184-080 | TR,2SA1318T | a | b |
| MAIN | | S | Q 0302 | 89-406-555-080 | TR,2SD655E | a | b |
| MAIN | | S | Q 0303 | 89-213-292-380 | TR,2SB1329(Q/R) | a | b |
| MAIN | | S | Q 0401 | 89-113-184-080 | TR,2SA1318T | a | b |
| MAIN | | S | Q 0402 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| MAIN | | S | Q 0403 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| MAIN | | S | Q 0404 | 87-A30-076-080 | C-TR,2SC3052F | a | b |
| MAIN | | S | Q 0405 | 87-A30-538-040 | C-TR,SRA2202S | a | b |
| MAIN | | S | Q 0601 | 87-A30-548-040 | C-TR,2SB1218AQRS | a | b |
| MAIN | | S | Q 0602 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| MAIN | | S | Q 0603 | 87-A30-547-040 | C-TR,2SD1819AQRS | a | b |
| MAIN | | S | Q 0860 | 89-327-125-080 | C-TR,2SC2712GR | . | b |
| MAIN | | S | Q 0861 | 89-327-125-080 | C-TR,2SC2712GR | . | b |
| MAIN | | X | R 0001 | 88-130-109-080 | RES,1-1/4W J | a | b |
| MAIN | | X | R 0002 | 88-130-109-080 | RES,1-1/4W J | a | b |
| MAIN | | X | R 0003 | 88-108-471-080 | C-RES,U 470-1/16W J | a | b |
| MAIN | | X | R 0004 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X | R 0005 | 88-130-109-080 | RES,1-1/4W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X | R 0006 | 88-130-109-080 | RES,1-1/4W J | a | b |
| MAIN | | X | R 0009 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| MAIN | | X | R 0010 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| MAIN | | X | R 0011 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| MAIN | | X | R 0012 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| MAIN | | X | R 0013 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| MAIN | | X | R 0014 | 88-108-100-080 | C-RES,U 10-1/16W J | a | b |
| MAIN | | X | R 0015 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X | R 0019 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X | R 0028 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X | R 0029 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| MAIN | | X | R 0032 | 88-108-274-080 | C-RES,U 270K-1/16W J | a | b |
| MAIN | | X | R 0034 | 88-121-273-080 | RES,27K-1/8W J | a | b |
| MAIN | | X | R 0043 | 88-108-471-080 | C-RES,U 470-1/16W J | a | b |
| MAIN | | X | R 0044 | 88-108-823-080 | C-RES,U 82K-1/16W J | a | b |
| MAIN | | X | R 0054 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| MAIN | | X | R 0055 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| MAIN | | X | R 0056 | 88-108-562-080 | C-RES,U 5.6K-1/16W J | a | b |
| MAIN | | X | R 0058 | 88-108-682-080 | C-RES,U 6.8K-1/16W J | a | b |
| MAIN | | X | R 0060 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X | R 0061 | 88-108-333-080 | C-RES,U 33K-1/16W J | a | b |
| MAIN | | X | R 0062 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| MAIN | | X | R 0063 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| MAIN | | X | R 0064 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0065 | 88-108-123-080 | C-RES,U 12K-1/16W J | a | b |
| MAIN | | X | R 0067 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X | R 0070 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0078 | 88-108-183-080 | C-RES,U 18K-1/16W J | a | b |
| MAIN | | X | R 0079 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X | R 0081 | 88-121-101-080 | RES,100-1/8W J | a | b |
| MAIN | | X | R 0085 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X | R 0086 | 88-108-683-080 | C-RES,U 68K-1/16W J | a | b |
| MAIN | | X | R 0093 | 88-121-273-080 | RES,27K-1/8W J | a | b |
| MAIN | | X | R 0094 | 88-108-183-080 | C-RES,U 18K-1/16W J | a | b |
| MAIN | | X | R 0095 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X | R 0096 | 88-121-273-080 | RES,27K-1/8W J | a | b |
| MAIN | | X | R 0301 | 88-121-102-080 | RES,1K-1/8W J | a | b |
| MAIN | | X | R 0302 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| MAIN | | X | R 0303 | 88-108-123-080 | C-RES,U 12K-1/16W J | a | b |
| MAIN | | X | R 0304 | 88-108-122-080 | C-RES,U 1.2K-1/16W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X | R 0305 | 88-108-681-080 | C-RES,U 680-1/16W J | a | b |
| MAIN | | X | R 0306 | 88-108-681-080 | C-RES,U 680-1/16W J | a | b |
| MAIN | | X | R 0307 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0308 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X | R 0309 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0310 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0311 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0312 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0313 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X | R 0314 | 88-121-103-080 | RES,10K-1/8W J | a | b |
| MAIN | | X | R 0315 | 88-108-339-080 | C-RES,U 3.3-1/16W J | a | b |
| MAIN | | X | R 0316 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X | R 0317 | 88-121-273-080 | RES,27K-1/8W J | a | b |
| MAIN | | X | R 0318 | 88-108-331-080 | C-RES,U 330-1/16W J | a | b |
| MAIN | | X | R 0319 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X | R 0320 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X | R 0321 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X | R 0322 | 88-108-333-080 | C-RES,U 33K-1/16W J | a | b |
| MAIN | | X | R 0323 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X | R 0324 | 88-108-333-080 | C-RES,U 33K-1/16W J | a | b |

! = ⚠ SAFTY PARTS
C = Components marked
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However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL | |
|---|---|---|---|---|---|---|---|
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X R | 0325 | 88-108-221-080 | C-RES,U 220-1/16W J | a | b |
| MAIN | | X R | 0326 | 88-108-181-080 | C-RES,U 180-1/16W J | a | b |
| MAIN | | X R | 0327 | 88-108-470-080 | C-RES,U 47-1/16W J | a | b |
| MAIN | | X R | 0328 | 88-121-100-080 | RES,10-1/8W J | a | b |
| MAIN | | X R | 0329 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0330 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X R | 0331 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0332 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0333 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0334 | 88-108-331-080 | C-RES,U 330-1/16W J | a | b |
| MAIN | | X R | 0335 | 88-108-331-080 | C-RES,U 330-1/16W J | a | b |
| MAIN | | X R | 0336 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| MAIN | | X R | 0337 | 88-128-471-080 | C-RES, 470-1/8W J | a | b |
| MAIN | | X R | 0339 | 88-140-229-080 | RES,2.2-1/2W J | a | b |
| MAIN | | X R | 0340 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0341 | 88-108-822-080 | C-RES,U 8.2K-1/16W J | a | b |
| MAIN | | X R | 0343 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0344 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0345 | 88-121-103-080 | RES,10K-1/8W J | a | b |
| MAIN | | X R | 0346 | 88-108-822-080 | C-RES,U 8.2K-1/16W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X R | 0347 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0348 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0350 | 88-100-000-010 | PLATING-JW, 0.58 SN95 | a | b |
| MAIN | | X R | 0353 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0354 | 88-108-681-080 | C-RES,U 680-1/16W J | a | b |
| MAIN | | X R | 0355 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0356 | 88-128-100-080 | C-RES, 10-1/8W J | a | b |
| MAIN | | X R | 0402 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0404 | 88-121-101-080 | RES,100-1/8W J | a | b |
| MAIN | | X R | 0405 | 88-121-102-080 | RES,1K-1/8W J | a | b |
| MAIN | | X R | 0406 | 88-121-102-080 | RES,1K-1/8W J | a | b |
| MAIN | | X R | 0407 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X R | 0408 | 88-121-101-080 | RES,100-1/8W J | a | b |
| MAIN | | X R | 0409 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0410 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0411 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0412 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0413 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0414 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0415 | 88-100-000-010 | PLATING-JW, 0.58 SN95 | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X R | 0416 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0417 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0418 | 88-121-102-080 | RES,1K-1/8W J | a | b |
| MAIN | | X R | 0419 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0420 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0421 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0422 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0423 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0424 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0425 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0426 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0427 | 88-121-100-080 | RES,10-1/8W J | a | b |
| MAIN | | X R | 0428 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0429 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0430 | 88-108-683-080 | C-RES,U 68K-1/16W J | a | b |
| MAIN | | X R | 0431 | 88-108-683-080 | C-RES,U 68K-1/16W J | a | b |
| MAIN | | X R | 0432 | 88-128-224-080 | C-RES, 220K-1/8W J | a | b |
| MAIN | | X R | 0433 | 88-128-472-080 | C-RES, 4.7K-1/8W J | a | b |
| MAIN | | X R | 0434 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0435 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X R | 0436 | 88-121-821-080 | RES,820-1/8W J | a | b |
| MAIN | | X R | 0437 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0438 | 88-108-123-080 | C-RES,U 12K-1/16W J | a | b |
| MAIN | | X R | 0440 | 88-108-821-080 | C-RES,U 820-1/16W J | a | b |
| MAIN | | X R | 0441 | 88-108-123-080 | C-RES,U 12K-1/16W J | a | b |
| MAIN | | X R | 0442 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0443 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0444 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0445 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| MAIN | | X R | 0446 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0447 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0448 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0449 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0450 | 88-108-471-080 | C-RES,U 470-1/16W J | a | b |
| MAIN | | X R | 0453 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0457 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | b |
| MAIN | | X R | 0458 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0459 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | . |
| MAIN | | X R | 0460 | 88-108-104-080 | C-RES,U 100K-1/16W J | . | b |
| MAIN | | X R | 0461 | 88-108-333-080 | C-RES,U 33K-1/16W J | a | b |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| MAIN | | X R | 0462 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0463 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0464 | 88-108-104-080 | C-RES,U 100K-1/16W J | . | b |
| MAIN | | X R | 0465 | 88-108-104-080 | C-RES,U 100K-1/16W J | a | . |
| MAIN | | X R | 0466 | 88-108-224-080 | C-RES,U 220K-1/16W J | a | b |
| MAIN | | X R | 0467 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X R | 0468 | 88-108-124-080 | C-RES,U 120K-1/16W J | a | b |
| MAIN | | X R | 0469 | 88-108-224-080 | C-RES,U 220K-1/16W J | a | b |
| MAIN | | X R | 0470 | 88-121-103-080 | RES,10K-1/8W J | a | b |
| MAIN | | X R | 0471 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0472 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0473 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0474 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0475 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0476 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0477 | 88-108-101-080 | C-RES,U 100-1/16W J | a | b |
| MAIN | | X R | 0601 | 88-130-101-080 | RES,100-1/4W J | a | b |
| MAIN | | X R | 0602 | 88-130-101-080 | RES,100-1/4W J | a | b |
| MAIN | | X R | 0603 | 88-130-121-080 | RES,120-1/4W J | a | b |
| MAIN | | X R | 0604 | 88-130-121-080 | RES,120-1/4W J | a | b |

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| MAIN | | X R | 0605 | 88-130-121-080 | RES,120-1/4W J | a | b |
| MAIN | | X R | 0611 | 88-108-562-080 | C-RES,U 5.6K-1/16W J | a | b |
| MAIN | | X R | 0612 | 88-108-562-080 | C-RES,U 5.6K-1/16W J | a | b |
| MAIN | | X R | 0615 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| MAIN | | X R | 0616 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a | b |
| MAIN | | X R | 0617 | 88-108-222-080 | C-RES,U 2.2K-1/16W J | a | b |
| MAIN | | X R | 0618 | 88-108-222-080 | C-RES,U 2.2K-1/16W J | a | b |
| MAIN | | X R | 0619 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0620 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0621 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0622 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0623 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0624 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0625 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0626 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0627 | 88-108-471-080 | C-RES,U 470-1/16W J | a | b |
| MAIN | | X R | 0628 | 88-108-471-080 | C-RES,U 470-1/16W J | a | b |
| MAIN | | X R | 0629 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| MAIN | | X R | 0630 | 88-108-273-080 | C-RES,U 27K-1/16W J | a | b |
| MAIN | | X R | 0631 | 88-121-103-080 | RES,10K-1/8W J | a | b |

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| MAIN | | X R | 0632 | 88-121-103-080 | RES,10K-1/8W J | a | b |
| MAIN | | X R | 0633 | 88-100-000-010 | PLATING-JW, 0.58 SN95 | a | b |
| MAIN | | X R | 0634 | 88-100-000-010 | PLATING-JW, 0.58 SN95 | a | b |
| MAIN | | X R | 0636 | 88-121-332-080 | RES,3.3K-1/8W J | a | b |
| MAIN | | X R | 0637 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0638 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0639 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0640 | 88-108-153-080 | C-RES,U 15K-1/16W J | a | b |
| MAIN | | X R | 0641 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X R | 0642 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X R | 0644 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0645 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0646 | 88-128-000-080 | C-JUMPER,3216 | a | b |
| MAIN | | X R | 0647 | 88-128-000-080 | C-JUMPER,3216 | a | b |
| MAIN | | X R | 0650 | 88-108-121-080 | C-RES,U 120-1/16W J | a | b |
| MAIN | | X R | 0661 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0662 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0671 | 88-130-100-080 | RES,10-1/4W J | a | b |
| MAIN | | X R | 0672 | 88-130-100-080 | RES,10-1/4W J | a | b |
| MAIN | | X R | 0673 | 88-128-100-080 | C-RES, 10-1/8W J | a | b |

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| MAIN | | X R | 0674 | 88-128-100-080 | C-RES, 10-1/8W J | a | b |
| MAIN | | X R | 0675 | 88-130-221-080 | RES,220-1/4W J | a | b |
| MAIN | | X R | 0676 | 88-130-221-080 | RES,220-1/4W J | a | b |
| MAIN | | X R | 0678 | 88-130-221-080 | RES,220-1/4W J | a | b |
| MAIN | | X R | 0679 | 88-130-221-080 | RES,220-1/4W J | a | b |
| MAIN | | X R | 0680 | 88-108-122-080 | C-RES,U 1.2K-1/16W J | a | b |
| MAIN | | X R | 0681 | 88-108-223-080 | C-RES,U 22K-1/16W J | a | b |
| MAIN | | X R | 0682 | 88-108-223-080 | C-RES,U 22K-1/16W J | a | b |
| MAIN | | X R | 0683 | 88-121-102-080 | RES,1K-1/8W J | a | b |
| MAIN | | X R | 0684 | 88-108-102-080 | C-RES,U 1K-1/16W J | a | b |
| MAIN | | X R | 0685 | 88-121-102-080 | RES,1K-1/8W J | a | b |
| MAIN | | X R | 0686 | 88-108-103-080 | C-RES,U 10K-1/16W J | a | b |
| MAIN | | X R | 0861 | 88-108-471-080 | C-RES,U 470-1/16W J | . | b |
| MAIN | | X R | 0862 | 88-108-102-080 | C-RES,U 1K-1/16W J | . | b |
| MAIN | | X R | 0863 | 88-108-102-080 | C-RES,U 1K-1/16W J | . | b |
| MAIN | | X R | 0864 | 88-108-272-080 | C-RES,U 2.7K-1/16W J | . | b |
| MAIN | | X R | 0865 | 88-108-104-080 | C-RES,U 100K-1/16W J | . | b |
| MAIN | | X R | 0866 | 88-108-123-080 | C-RES,U 12K-1/16W J | . | b |
| MAIN | | X R | 0867 | 88-108-104-080 | C-RES,U 100K-1/16W J | . | b |
| MAIN | | X R | 0868 | 88-108-471-080 | C-RES,U 470-1/16W J | . | b |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL | |
|---|---|---|---|---|---|---|---|
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| MAIN | | X R | 0876 | 88-108-222-080 | C-RES,U 2.2K-1/16W J | a | b |
| MAIN | | X R | 0877 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| MAIN | | X R | 0878 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X R | 0880 | 88-108-473-080 | C-RES,U 47K-1/16W J | a | b |
| MAIN | | X R | 0882 | 88-108-000-080 | C-JUMPER,U | a | b |
| MAIN | | X R | 0883 | 88-108-222-080 | C-RES,U 2.2K-1/16W J | a | b |
| MAIN | | O WH | 0001 | 87-A90-510-010 | HLDR,WIRE 2.5-9P | a | b |
| MAIN | | O X | 0301 | 87-A70-363-010 | VIB,XTAL 16.9344MHZ CSA-309 | a | b |
| MAIN | | O X | 0862 | 87-A70-307-010 | VIB,XTAL 4.332MHZ CSA-309ST | . | b |
| PT | ! | O C | 0201 | 87-A10-479-080 | CAP,CER 2200P-250 M E KH | a | b |
| PT | | O CN | 0201 | 87-A61-110-010 | CONN,9P V TID-A | a | b |
| PT | ! | O CN | 0202 | 87-099-674-010 | CONN,2P V VA | a | b |
| PT | | S D | 0251 | 87-020-465-080 | DIODE,1SS133 | a | b |
| PT | | S D | 0252 | 87-020-465-080 | DIODE,1SS133 | a | b |
| PT | | S D | 0253 | 87-020-465-080 | DIODE,1SS133 | a | b |
| PT | | S D | 0254 | 87-020-465-080 | DIODE,1SS133 | a | b |
| PT | | S D | 0255 | 87-020-465-080 | DIODE,1SS133 | a | b |
| PT | ! | O PT | 0251 | 8B-NF9-665-010 | PT,SUB BNF E (TAM) | a | b |
| PT | ! | O PT | 0580 | 8C-CL4-640-010 | PT,CCL-4 EZ | a | b |
| PT | ! | O RY | 0251 | 87-A91-418-010 | RELAY,AC12V G5PA-1-M | a | b |

# ELECTRICAL PARTS LIST (CZA – 3)

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | CZA-3 EZM |
| TUNER | | O | C 0772 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0781 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0782 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| TUNER | | O | C 0783 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0785 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0786 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0788 | 87-012-167-080 | C-CAP,U 5P-50 C CH | a |
| TUNER | | O | C 0789 | 87-A11-228-080 | C-CAP,U 0.027-25 K B | a |
| TUNER | | O | C 0790 | 87-A11-228-080 | C-CAP,U 0.027-25 K B | a |
| TUNER | | O | C 0792 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0793 | 87-A10-262-080 | C-CAP,U 1-10 Z F | a |
| TUNER | | O | C 0795 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0796 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0797 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0799 | 87-A12-070-040 | CAP,E 33-25 SMG | a |
| TUNER | | O | C 0800 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0801 | 87-A10-262-080 | C-CAP,U 1-10 Z F | a |
| TUNER | | O | C 0802 | 87-010-829-080 | C-CAP,U 0.047-16 Z F | a |
| TUNER | | O | C 0804 | 87-A12-062-040 | CAP,E 100-10 SMG | a |
| TUNER | | O | C 0807 | 87-A10-463-080 | C-CAP,U 0.47-10 Z F | a |
| | | | | | | CZA-3 EZM |
| TUNER | | O | C 0808 | 87-A10-262-080 | C-CAP,U 1-10 Z F | a |
| TUNER | | O | C 0809 | 87-A10-262-080 | C-CAP,U 1-10 Z F | a |
| TUNER | | O | C 0814 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0815 | 87-A10-463-080 | C-CAP,U 0.47-10 Z F | a |
| TUNER | | O | C 0816 | 87-A10-463-080 | C-CAP,U 0.47-10 Z F | a |
| TUNER | | O | C 0818 | 87-012-276-080 | C-CAP,U 1500P-50 K B GRM | a |
| TUNER | | O | C 0821 | 87-A11-796-080 | C-CAP,S 4.7-10 Z F | a |
| TUNER | | O | C 0823 | 87-012-274-080 | C-CAP,U 1000P-50 K B GRM | a |
| TUNER | | O | C 0824 | 87-A11-796-080 | C-CAP,S 4.7-10 Z F | a |
| TUNER | | O | C 0825 | 87-A11-317-080 | C-CAP,U 0.068U-16 K B | a |
| TUNER | | O | C 0831 | 87-A12-069-040 | CAP,E 22-25 SMG | a |
| TUNER | | O | C 0837 | 87-A12-022-080 | C-CAP,U 0.22-16 Z F | a |
| TUNER | | O | C 0842 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a |
| TUNER | | X | C 0847 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | X | C 0848 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | O | C 0850 | 87-A10-262-080 | C-CAP,U 1-10 Z F | a |
| TUNER | | O | C 0851 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0852 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0853 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0854 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| | | | | | | CZA-3 EZM |
| TUNER | | O | C 0855 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0856 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0859 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a |
| TUNER | | O | C 0860 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0901 | 87-012-162-080 | C-CAP,U 1P-50 C CH GRM | a |
| TUNER | | O | C 0902 | 87-012-165-080 | C-CAP,U 3P-50 C CH | a |
| TUNER | | O | C 0903 | 87-012-164-080 | C-CAP,U 2P-50 C CH | a |
| TUNER | | O | C 0904 | 86-ZA1-615-080 | C-CAP,U 680P-25 J CH | a |
| TUNER | | O | C 0905 | 87-012-162-080 | C-CAP,U 1P-50 C CH GRM | a |
| TUNER | | O | C 0906 | 87-012-172-080 | C-CAP,U 10P-50 D CH | a |
| TUNER | | O | C 0907 | 87-012-166-080 | C-CAP,U 4P-50 C CH | a |
| TUNER | | O | C 0908 | 87-012-165-080 | C-CAP,U 3P-50 C CH | a |
| TUNER | | O | C 0909 | 86-ZA1-615-080 | C-CAP,U 680P-25 J CH | a |
| TUNER | | O | C 0910 | 87-012-164-080 | C-CAP,U 2P-50 C CH | a |
| TUNER | | O | C 0911 | 87-012-166-080 | C-CAP,U 4P-50 C CH | a |
| TUNER | | O | C 0912 | 87-012-195-080 | C-CAP,U 100P-50 J CH GRM | a |
| TUNER | | O | C 0913 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| TUNER | | O | C 0914 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| TUNER | | O | C 0915 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| TUNER | | O | C 0916 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| | | | | | | CZA-3 EZM |
| TUNER | | O | C 0917 | 87-012-178-080 | C-CAP,U 18P-50 J CH | a |
| TUNER | | O | C 0918 | 87-012-172-080 | C-CAP,U 10P-50 D CH | a |
| TUNER | | O | C 0919 | 87-012-184-080 | C-CAP,U 33P-50 J CH GRM | a |
| TUNER | | O | C 0920 | 87-012-184-080 | C-CAP,U 33P-50 J CH GRM | a |
| TUNER | | O | C 0921 | 87-012-180-080 | C-CAP,U 22P-50 J CH | a |
| TUNER | | O | C 0922 | 87-012-174-080 | C-CAP,U 12P-50 J CH | a |
| TUNER | | O | C 0923 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| TUNER | | O | C 0924 | 87-012-164-080 | C-CAP,U 2P-50 C CH | a |
| TUNER | | O | C 0925 | 87-012-164-080 | C-CAP,U 2P-50 C CH | a |
| TUNER | | O | C 0926 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| TUNER | | O | C 0927 | 87-012-195-080 | C-CAP,U 100P-50 J CH GRM | a |
| TUNER | | O | C 0931 | 87-A12-319-080 | C-CAP,U 0.1-25 K B | a |
| TUNER | | O | C 0932 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0933 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0934 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0935 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0936 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0937 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0938 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0939 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | CZA-3<br>EZM |
| TUNER | | O | C 0942 | 87-012-168-080 | C-CAP,U 6P-50 D CH GRM | a |
| TUNER | | O | C 0946 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0947 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0948 | 87-012-270-080 | C-CAP,U 470P-50 K B GRM | a |
| TUNER | | O | C 0950 | 86-ZA1-616-080 | C-CAP,U 0.01-50 K B (MUR) | a |
| TUNER | | O | C 0952 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0957 | 87-012-174-080 | C-CAP,U 12P-50 J CH | a |
| TUNER | | O | C 0958 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0962 | 87-A10-262-080 | C-CAP,U 1-10 Z F | a |
| TUNER | | O | C 0963 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a |
| TUNER | | O | C 0971 | 87-010-381-010 | CAP,E 330-16 M SME | a |
| TUNER | | O | C 0972 | 87-A11-063-080 | C-CAP,S 4.7-10 Z F | a |
| TUNER | | O | C 0973 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0974 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0976 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a |
| TUNER | | O | C 0979 | 87-012-195-080 | C-CAP,U 100P-50 J CH GRM | a |
| TUNER | | O | C 0981 | 87-A12-066-040 | CAP,E 47-16 SMG | a |
| TUNER | | O | C 0982 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a |
| TUNER | | O | C 0983 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0984 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| | | | | | | CZA-3<br>EZM |
| TUNER | | O | C 0985 | 87-012-195-080 | C-CAP,U 100P-50 J CH GRM | a |
| TUNER | | O | C 0987 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0988 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0989 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | C 0990 | 87-012-195-080 | C-CAP,U 100P-50 J CH GRM | a |
| TUNER | | O | C 0991 | 87-012-182-080 | C-CAP,U 27P-50 J CH GRM | a |
| TUNER | | O | C 0992 | 87-012-172-080 | C-CAP,U 10P-50 D CH | a |
| TUNER | | O | C 0993 | 87-012-274-080 | C-CAP,U 1000P-50 K B GRM | a |
| TUNER | | O | C 0994 | 87-012-195-080 | C-CAP,U 100P-50 J CH GRM | a |
| TUNER | | O | C 0995 | 87-012-274-080 | C-CAP,U 1000P-50 K B GRM | a |
| TUNER | | O | C 0996 | 87-012-195-080 | C-CAP,U 100P-50 J CH GRM | a |
| TUNER | | O | C 0997 | 87-010-831-080 | C-CAP,U 0.1-16 Z F | a |
| TUNER | | O | C 0998 | 87-A12-066-040 | CAP,E 47-16 SMG | a |
| TUNER | | O | C 0999 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | O | CF 0831 | 87-008-423-010 | FLTR,CF SFE10.7MS3G-A | a |
| TUNER | | O | CF 0832 | 82-785-747-010 | CF,MS2 GHY,R | a |
| TUNER | | O | CN 0991 | 87-A60-650-010 | CONN,16P H GRY TUC-P16X-C1 | a |
| TUNER | | S | D 0801 | 87-020-465-080 | DIODE,1SS133 | a |
| TUNER | | S | D 0803 | 87-020-465-080 | DIODE,1SS133 | a |
| TUNER | | X | D 0896 | 88-100-000-010 | PLATING-JW, 0.58 SN95 | a |
| | | | | | | CZA-3<br>EZM |
| TUNER | | O | D 0901 | 87-A41-048-040 | C-VARI-CAP,HVM16-03 TL | a |
| TUNER | | O | D 0902 | 87-A41-048-040 | C-VARI-CAP,HVM16-03 TL | a |
| TUNER | | O | D 0903 | 87-A41-048-040 | C-VARI-CAP,HVM16-03 TL | a |
| TUNER | | S | D 0942 | 87-A40-270-080 | C-DIODE,MC2838 | a |
| TUNER | | X | D 0944 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | O | D 0951 | 87-A40-799-040 | C-VARI-CAP,KV1610S | a |
| TUNER | | S | D 0991 | 87-017-149-080 | ZENER,HZS6A2L | a |
| TUNER | | S | D 0992 | 87-020-465-080 | DIODE,1SS133 | a |
| TUNER | | S | IC 0801 | 87-A22-060-010 | IC,LA1845N-A | a |
| TUNER | | S | IC 0991 | 87-A21-928-010 | IC,LC72131D-N | a |
| TUNER | | O | J 0832 | 87-A61-823-010 | TERMINAL,ANT PAL AJ-2073 | a |
| TUNER | | O | J 0940 | 87-A60-633-010 | CONN,2P H 2.5MM JMT | a |
| TUNER | | X | JR 0783 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | S | JW 0942 | 87-020-465-080 | DIODE,1SS133 | a |
| TUNER | | O | JW 0959 | 87-A11-132-080 | CAP,TC U 0.01-50 K B | a |
| TUNER | | O | L 0801 | 87-A50-694-010 | COIL,FM-DET 2 (COILS) | a |
| TUNER | | O | L 0802 | 87-A91-551-010 | FLTR,PCFJZH-450 L(TOK) | a |
| TUNER | | O | L 0811 | 87-005-847-080 | COIL,2.2UH K CECS | a |
| TUNER | | O | L 0832 | 87-005-847-080 | COIL,2.2UH K CECS | a |
| TUNER | | O | L 0901 | 86-ZA1-612-010 | COIL,FM ANT/RF-1-Z | a |
| | | | | | | CZA-3<br>EZM |
| TUNER | | O | L 0902 | 86-ZA1-613-010 | COIL,FM ANT/RF-2-Z | a |
| TUNER | | O | L 0903 | 87-003-098-080 | COIL,2.2UH K LAL02 | a |
| TUNER | | O | L 0904 | 86-ZA1-612-010 | COIL,FM ANT/RF-1-Z | a |
| TUNER | | O | L 0905 | 86-ZA1-613-010 | COIL,FM ANT/RF-2-Z | a |
| TUNER | | O | L 0906 | 87-005-847-080 | COIL,2.2UH K CECS | a |
| TUNER | | O | L 0907 | 86-ZA1-614-010 | COIL,FM OSC-Z | a |
| TUNER | | O | L 0908 | 88-ZA1-624-010 | COIL,FM IFT 7-6.2 (COILS) | a |
| TUNER | | O | L 0941 | 87-A50-020-010 | COIL,ANT LW (COI) 252KHZ | a |
| TUNER | | O | L 0942 | 87-A50-019-010 | COIL,OSC LW (COI) 856KHZ | a |
| TUNER | | O | L 0952 | 87-A50-754-010 | COIL,MW ANT(3BLW) | a |
| TUNER | | O | L 0953 | 87-A50-755-010 | COIL,MW OSC(3BLW) | a |
| TUNER | | S | Q 0835 | 89-327-143-080 | C-TR,2SC2714O | a |
| TUNER | | S | Q 0836 | 87-A30-677-040 | C-TR,SRA2207S | a |
| TUNER | | S | Q 0901 | 89-503-602-080 | C-FET,2SK360E | a |
| TUNER | | S | Q 0902 | 87-A30-664-080 | C-TR,2SC2620B | a |
| TUNER | | S | Q 0903 | 87-A30-664-080 | C-TR,2SC2620B | a |
| TUNER | | S | Q 0904 | 87-A30-664-080 | C-TR,2SC2620B | a |
| TUNER | | S | Q 0905 | 87-A30-664-080 | C-TR,2SC2620B | a |
| TUNER | | S | Q 0948 | 87-A30-675-040 | C-TR,2SD1306NE07TL | a |
| TUNER | | S | Q 0951 | 87-A30-074-080 | C-TR,RT1P 141C | a |

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | CZA-3<br>EZM |
| TUNER | | S | Q 0952 | 87-A30-675-040 | C-TR,2SD1306NE07TL | a |
| TUNER | | S | Q 0953 | 89-503-602-080 | C-FET,2SK360E | a |
| TUNER | | S | Q 0981 | 87-A30-494-080 | TR,2SA1980G | a |
| TUNER | | S | Q 0982 | 87-A30-076-080 | C-TR,2SC3052F | a |
| TUNER | | S | Q 0983 | 87-A30-076-080 | C-TR,2SC3052F | a |
| TUNER | | X | R 0789 | 88-108-333-080 | C-RES,U 33K-1/16W J | a |
| TUNER | | O | R 0790 | 87-012-286-080 | C-CAP,U 0.01-25 K B GRM | a |
| TUNER | | X | R 0791 | 88-108-102-080 | C-RES,U 1K-1/16W J | a |
| TUNER | | X | R 0793 | 88-108-221-080 | C-RES,U 220-1/16W J | a |
| TUNER | | X | R 0795 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | X | R 0801 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | R 0802 | 88-108-223-080 | C-RES,U 22K-1/16W J | a |
| TUNER | | X | R 0803 | 88-108-183-080 | C-RES,U 18K-1/16W J | a |
| TUNER | | X | R 0804 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | X | R 0805 | 88-108-332-080 | C-RES,U 3.3K-1/16W J | a |
| TUNER | | X | R 0806 | 88-108-682-080 | C-RES,U 6.8K-1/16W J | a |
| TUNER | | X | R 0809 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | X | R 0810 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | X | R 0813 | 88-108-224-080 | C-RES,U 220K-1/16W J | a |
| TUNER | | X | R 0814 | 88-108-222-080 | C-RES,U 2.2K-1/16W J | a |
| | | | | | | CZA-3<br>EZM |
| TUNER | | X | R 0815 | 88-121-682-080 | RES,6.8K-1/8W J | a |
| TUNER | | X | R 0816 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a |
| TUNER | | X | R 0818 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | R 0823 | 88-108-393-080 | C-RES,U 39K-1/16W J | a |
| TUNER | | X | R 0826 | 88-108-223-080 | C-RES,U 22K-1/16W J | a |
| TUNER | | X | R 0832 | 88-108-391-080 | C-RES,U 390-1/16W J | a |
| TUNER | | X | R 0840 | 88-108-221-080 | C-RES,U 220-1/16W J | a |
| TUNER | | X | R 0850 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | R 0853 | 88-108-102-080 | C-RES,U 1K-1/16W J | a |
| TUNER | | X | R 0854 | 88-108-331-080 | C-RES,U 330-1/16W J | a |
| TUNER | | X | R 0855 | 88-108-183-080 | C-RES,U 18K-1/16W J | a |
| TUNER | | X | R 0856 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | R 0857 | 88-108-181-080 | C-RES,U 180-1/16W J | a |
| TUNER | | X | R 0858 | 88-108-271-080 | C-RES,U 270-1/16W J | a |
| TUNER | | X | R 0860 | 88-121-101-080 | RES,100-1/8W J | a |
| TUNER | | X | R 0890 | 88-108-474-080 | C-RES,U 470K-1/16W J | a |
| TUNER | | X | R 0901 | 88-108-104-080 | C-RES,U 100K-1/16W J | a |
| TUNER | | X | R 0902 | 88-108-104-080 | C-RES,U 100K-1/16W J | a |
| TUNER | | X | R 0903 | 88-108-221-080 | C-RES,U 220-1/16W J | a |
| TUNER | | X | R 0904 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| | | | | | | CZA-3<br>EZM |
| TUNER | | X | R 0905 | 88-108-221-080 | C-RES,U 220-1/16W J | a |
| TUNER | | X | R 0906 | 88-108-564-080 | C-RES,U 560K-1/16W J | a |
| TUNER | | X | R 0908 | 88-108-271-080 | C-RES,U 270-1/16W J | a |
| TUNER | | X | R 0909 | 88-108-181-080 | C-RES,U 180-1/16W J | a |
| TUNER | | X | R 0910 | 88-108-334-080 | C-RES,U 330K-1/16W J | a |
| TUNER | | X | R 0911 | 88-108-181-080 | C-RES,U 180-1/16W J | a |
| TUNER | | X | R 0912 | 88-108-104-080 | C-RES,U 100K-1/16W J | a |
| TUNER | | X | R 0913 | 88-108-152-080 | C-RES,U 1.5K-1/16W J | a |
| TUNER | | X | R 0914 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a |
| TUNER | | X | R 0915 | 88-108-104-080 | C-RES,U 100K-1/16W J | a |
| TUNER | | X | R 0916 | 88-108-470-080 | C-RES,U 47-1/16W J | a |
| TUNER | | X | R 0944 | 88-108-101-080 | C-RES,U 100-1/16W J | a |
| TUNER | | X | R 0945 | 88-108-104-080 | C-RES,U 100K-1/16W J | a |
| TUNER | | X | R 0947 | 88-108-183-080 | C-RES,U 18K-1/16W J | a |
| TUNER | | X | R 0948 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a |
| TUNER | | X | R 0952 | 88-108-562-080 | C-RES,U 5.6K-1/16W J | a |
| TUNER | | X | R 0954 | 88-108-222-080 | C-RES,U 2.2K-1/16W J | a |
| TUNER | | X | R 0956 | 88-108-471-080 | C-RES,U 470-1/16W J | a |
| TUNER | | X | R 0958 | 88-108-472-080 | C-RES,U 4.7K-1/16W J | a |
| TUNER | | X | R 0959 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| | | | | | | CZA-3<br>EZM |
| TUNER | | X | R 0962 | 88-121-221-080 | RES,220-1/8W J | a |
| TUNER | | X | R 0964 | 88-108-330-080 | C-RES,U 33-1/16W J | a |
| TUNER | | X | R 0972 | 88-108-102-080 | C-RES,U 1K-1/16W J | a |
| TUNER | | X | R 0973 | 88-108-102-080 | C-RES,U 1K-1/16W J | a |
| TUNER | | X | R 0974 | 88-108-101-080 | C-RES,U 100-1/16W J | a |
| TUNER | | X | R 0975 | 88-108-562-080 | C-RES,U 5.6K-1/16W J | a |
| TUNER | | X | R 0976 | 88-108-102-080 | C-RES,U 1K-1/16W J | a |
| TUNER | | X | R 0977 | 88-108-102-080 | C-RES,U 1K-1/16W J | a |
| TUNER | | X | R 0978 | 88-108-681-080 | C-RES,U 680-1/16W J | a |
| TUNER | | X | R 0980 | 88-108-684-080 | C-RES,U 680K-1/16W J | a |
| TUNER | | X | R 0981 | 88-121-471-080 | RES,470-1/8W J | a |
| TUNER | | X | R 0982 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | R 0983 | 88-108-562-080 | C-RES,U 5.6K-1/16W J | a |
| TUNER | | X | R 0984 | 88-108-562-080 | C-RES,U 5.6K-1/16W J | a |
| TUNER | | X | R 0985 | 88-121-471-080 | RES,470-1/8W J | a |
| TUNER | | X | R 0986 | 88-108-222-080 | C-RES,U 2.2K-1/16W J | a |
| TUNER | | X | R 0988 | 88-108-000-080 | C-JUMPER,U | a |
| TUNER | | X | R 0989 | 88-121-102-080 | RES,1K-1/8W J | a |
| TUNER | | X | R 0990 | 88-108-563-080 | C-RES,U 56K-1/16W J | a |
| TUNER | | X | R 0992 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | CZA-3<br>EZM |
| TUNER | | X | R 0994 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | R 0996 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | R 0997 | 88-108-154-080 | C-RES,U 150K-1/16W J | a |
| TUNER | | X | R 0998 | 88-108-102-080 | C-RES,U 1K-1/16W J | a |
| TUNER | | X | R 0999 | 88-108-103-080 | C-RES,U 10K-1/16W J | a |
| TUNER | | X | SH 0901 | 8C-ZA3-604-010 | SHLD-CASE,CZA-3 | a |
| TUNER | | X | SH 0902 | 8C-ZA3-619-010 | SHLD-CASE,CZA-3 EZ P | a |
| TUNER | | O | TC 0942 | 87-A91-774-080 | TRIMMER,PLY 30P 6.8X5.4 CDYL | a |
| TUNER | | O | X 0992 | 87-A70-306-010 | VIB,XTAL 4.500MHZ CSA-309ST | a |

# ELECTRICAL PARTS LIST (3ZG – 3)

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | 3ZG-3<br>E13NM |
| CD-LOAD | | O | CON0006 | 87-099-210-010 | CONN,5P H BLK 6216 | a |
| CD-LOAD | | O | M 0001 | 87-045-305-010 | MOT,RF-500TB | a |
| CD-LOAD | | O | SW 0001 | 87-036-110-010 | SW,MICRO SPPB62 | a |
| CD-LOAD | | O | SW 0002 | 87-036-110-010 | SW,MICRO SPPB62 | a |

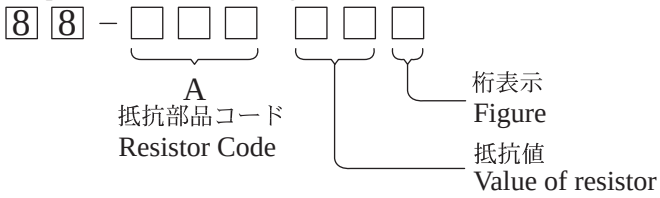
# ELECTRICAL PARTS LIST (3ZG – 2)

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

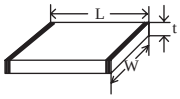
| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | 3ZG-2<br>E3NM |
| CD-DRIVE | | O | CON0003 | 87-A60-086-010 | CONN,06P H 6216 | a |
| CD-DRIVE | | O | M 0020 | 87-045-358-010 | MOT,RF-310TA 43 | a |
| CD-DRIVE | | O | M 0021 | 87-045-356-010 | MOT,RF-310TA 30 | a |
| CD-DRIVE | | O | SW 0001 | 87-A90-042-010 | SW,LEAF MSW-17310MVPO | a |

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



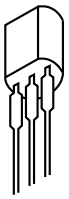

チップ抵抗
Chip resistor

| 容量 Wattage | 種類 Type | 許容誤差 Tolerance | 記号 Symbol | 寸法／Dimensions (mm) 外形／Form | L | W | t | 抵抗コード ：A Resistor Code：A |
|---|---|---|---|---|---|---|---|---|
| 1/16W | 1005 | ± 5% | CJ |  | 1.0 | 0.5 | 0.35 | 104 |
| 1/16W | 1608 | ± 5% | CJ | | 1.6 | 0.8 | 0.45 | 108 |
| 1/10W | 2125 | ± 5% | CJ | | 2 | 1.25 | 0.45 | 118 |
| 1/8W | 3216 | ± 5% | CJ | | 3.2 | 1.6 | 0.55 | 128 |



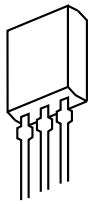
## TRANSISTOR ILLUSTRATION

2SD655E



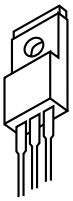

2SA1980G

2SA1318T

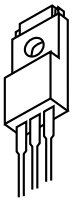



2SB1329(Q/R)

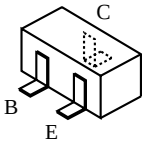
2N5551C



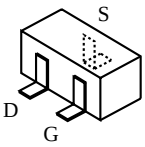

2SB1342
2SD1933




2SK2937

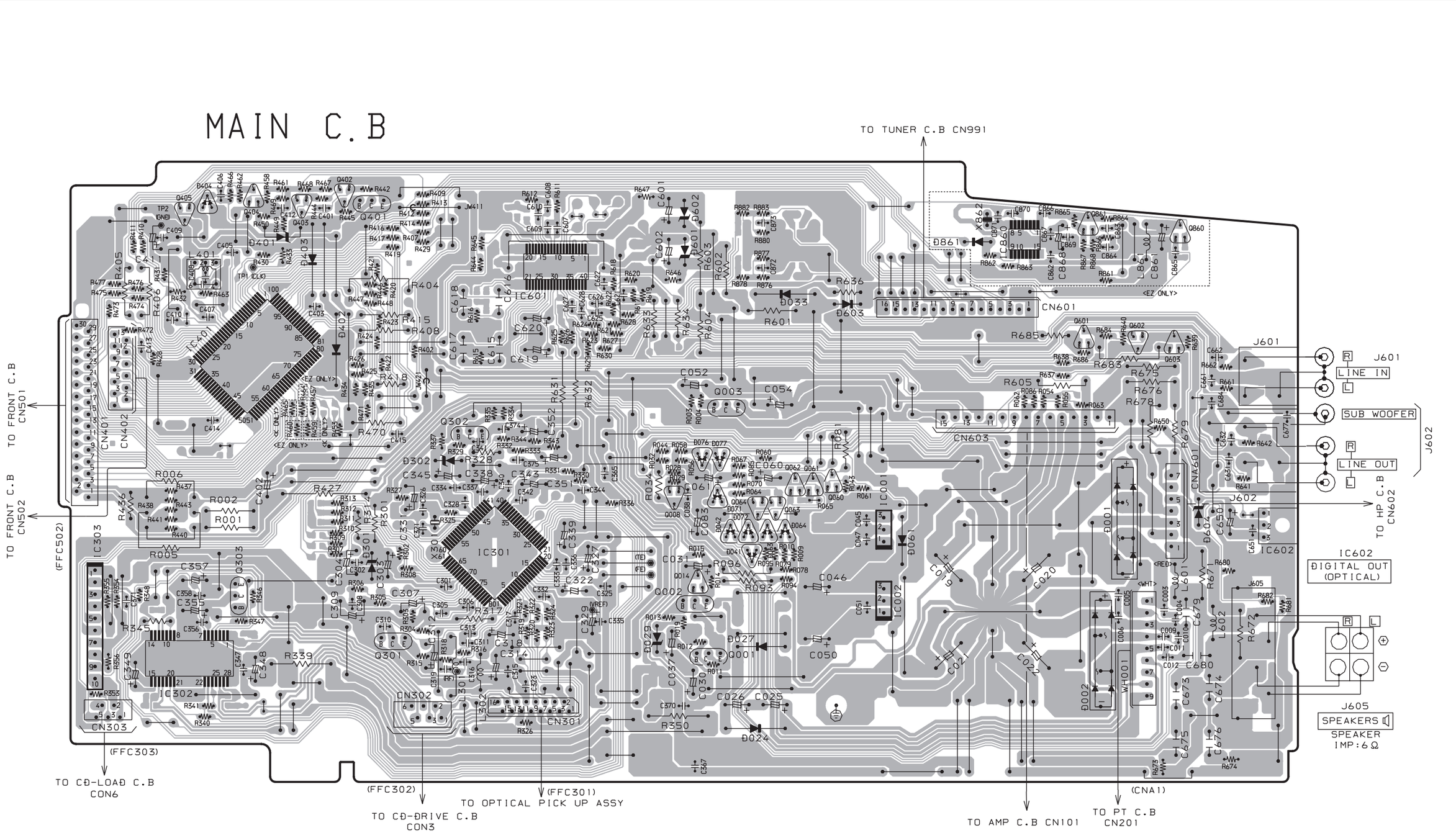



2SA1235F
2SB1218AQRS
2SC2620B
2SC2712GR
2SC2714O
2SC3052F
2SD1306NE07TL
2SD1819AQRS
RT1P 141C
SBT5401
SBT5551
SRA2202S
SRA2207S

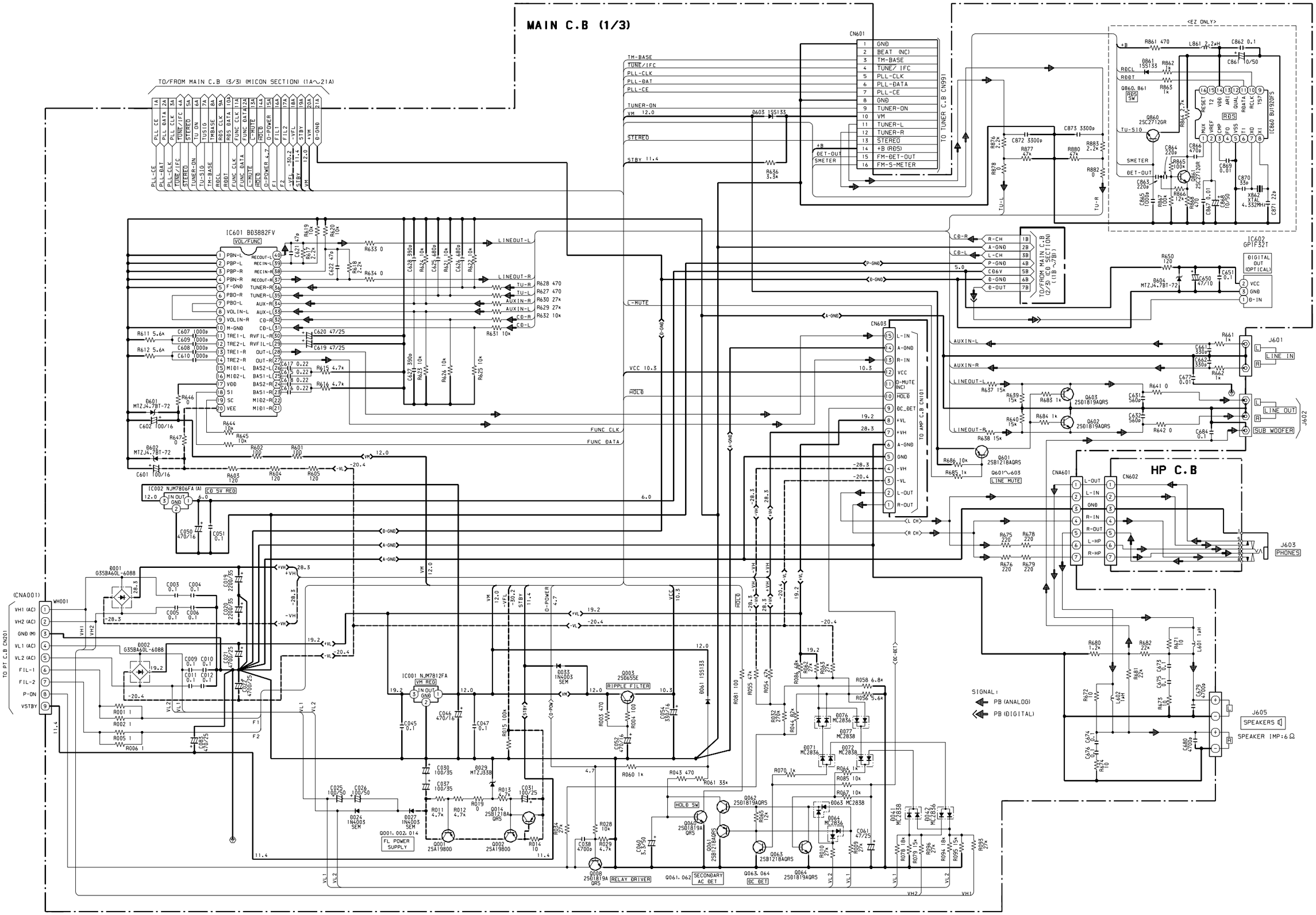


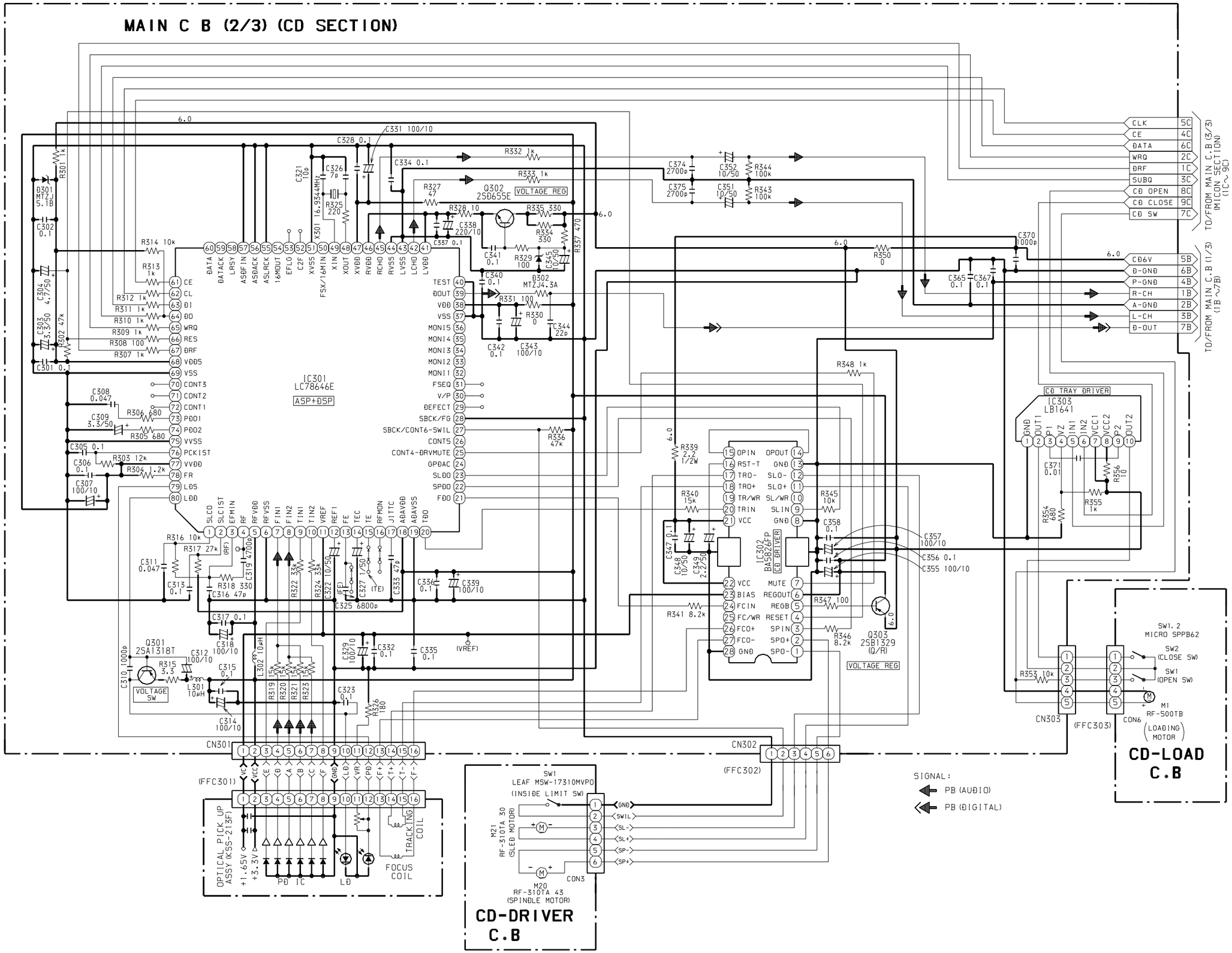

2SK360E

# MAIN C.B

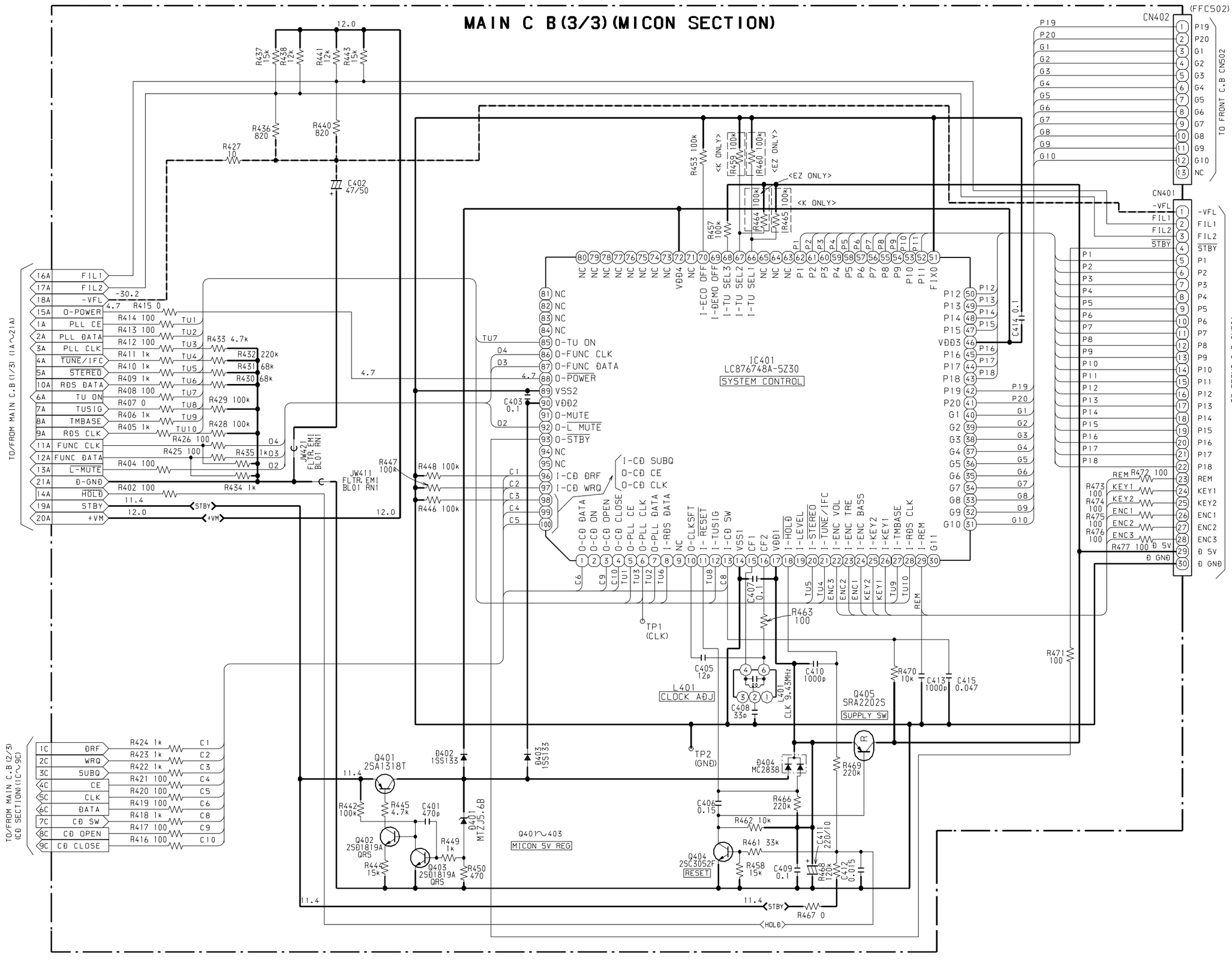

TO TUNER C.B CN991
TO FRONT C.B CN501
TO FRONT C.B CN502
(FFC502)
(FFC303)
TO CD-LOAD C.B CON6
(FFC302)
TO CD-DRIVE C.B CON3
(FFC301)
TO OPTICAL PICK UP ASSY
(CNA1)
TO AMP C.B CN101
TO PT C.B CN201
TO HP C.B CN602
IC602
DIGITAL OUT (OPTICAL)
J605
SPEAKERS
SPEAKER IMP:6Ω
J601
LINE IN
SUB WOOFER
LINE OUT
CN601
CN602
CN603
CN301
CN302
CN303
IC301
IC302
IC601
IC602
<EZ ONLY>

SCHEMATIC DIAGRAM – 1 (MAIN : 1 / 3 / HP)




MAIN C B (2/3) (CD SECTION)
IC301
LC78646E
ASP+DSP
Q302
2SD655E
VOLTAGE REG
D302
MTZJ4.3A
Q301
2SA1318T
VOLTAGE SW
IC303
LB1641
CD TRAY DRIVER
IC302
BA5826FP
CD DRIVER
Q303
2SB1329
(Q/R)
VOLTAGE REG
TO/FROM MAIN C.B (3/3)
(MICON SECTION)
(1C~9C)
TO/FROM MAIN C.B (1/3)
(1B~7B)
CLK
CE
DATA
WRQ
DRF
SUBQ
CD OPEN
CD CLOSE
CD SW
CD6V
D-GND
P-GND
R-CH
A-GND
L-CH
D-OUT
SW1. 2
MICRO SPPB62
SW2
(CLOSE SW)
SW1
(OPEN SW)
M1
RF-500TB
(LOADING MOTOR)
CD-LOAD
C.B
CN303
(FFC303)
CON6
CN301
(FFC301)
CN302
(FFC302)
OPTICAL PICK UP
ASSY (KSS-213F)
+1.65V
+3.3V
PD IC
LD
TRACKING COIL
FOCUS COIL
SW1
LEAF MSW-17310MVP0
(INSIDE LIMIT SW)
M21
RF-310TA 30
(SLED MOTOR)
CON3
M20
RF-310TA 43
(SPINDLE MOTOR)
CD-DRIVER
C.B
SIGNAL:
PB (AUDIO)
PB (DIGITAL)

SCHEMATIC DIAGRAM – 3 (MAIN : 3 / 3 <MICON SECTION>)



# FRONT C.B

S503 VOLUME

S502 TREBLE

FL501 (ĐISPLAY)

S501 BASS

TO MAIN C.B CN402

S505, Đ501 POWER ⏻ STANĐBY/ON

(FFC502)

TO MAIN C.B CN401

CN501

CN502

FL501

S503

S502

S501

S505

Đ501

C503

C510

C502

IC501

IC501 REMOTE SENSOR

# HP C.B

TO MAIN C.B CNA601

CN602

J603

J603 PHONES

# KEY C.B

S507 ▲OPEN/CLOSE

S508 ▶❚❚ CĐ

S508

S507

CN503

TO KEY C.B CNA501

CNA501

TO FRONT C.B CN503

S509 ⏭/⏩ TUNING UP

S510 ⏪/⏮ TUNING ĐOWN

S512 ■CLEAR

S514 AUX

S516 TUNER/BANĐ

S511 PRESET

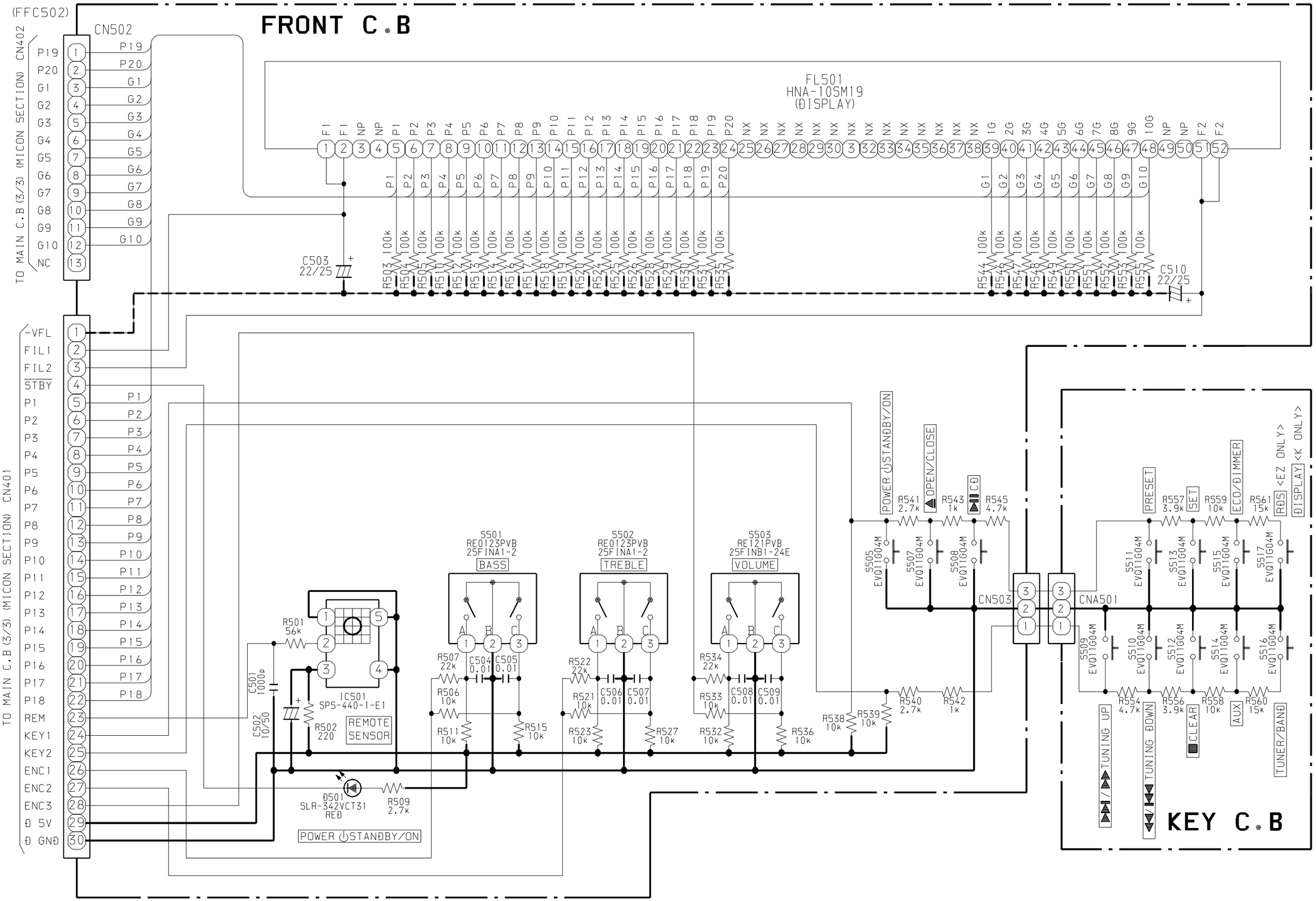
S513 SET

S515 ECO/ĐIMMER

S517 RĐS <EZ ONLY>

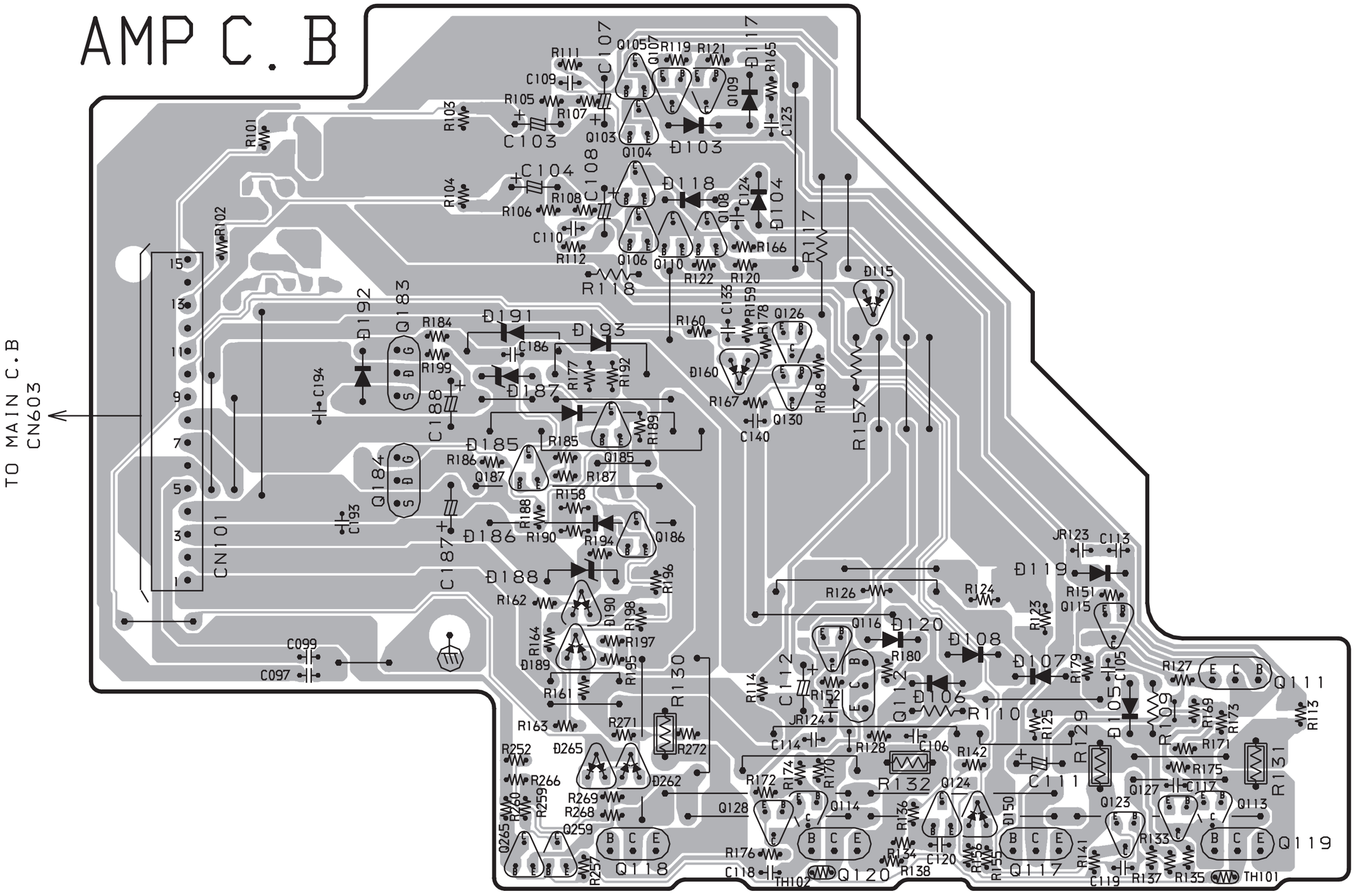
S517 ĐISPLAY <K ONLY>

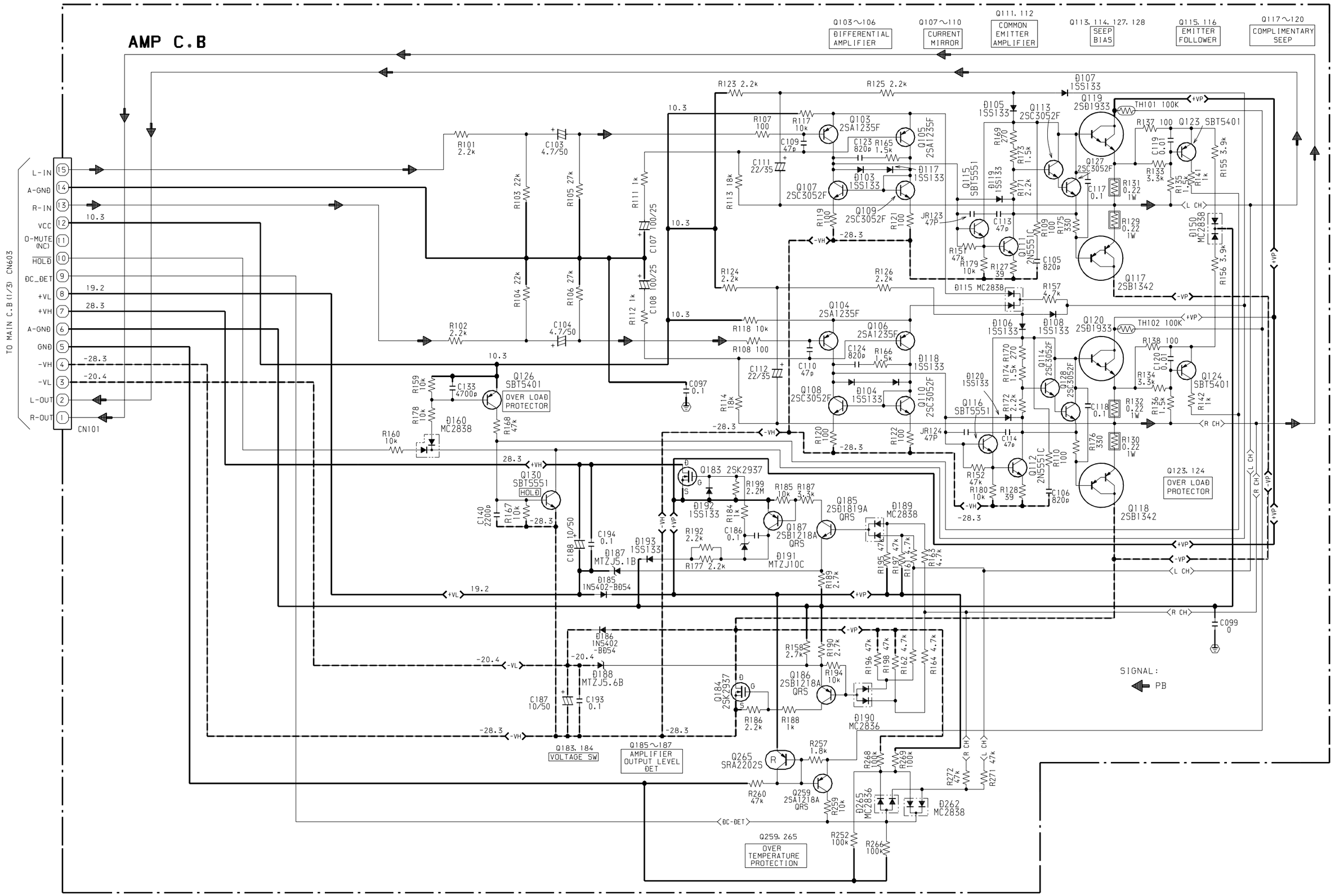
SCHEMATIC DIAGRAM – 4 (FRONT / KEY)

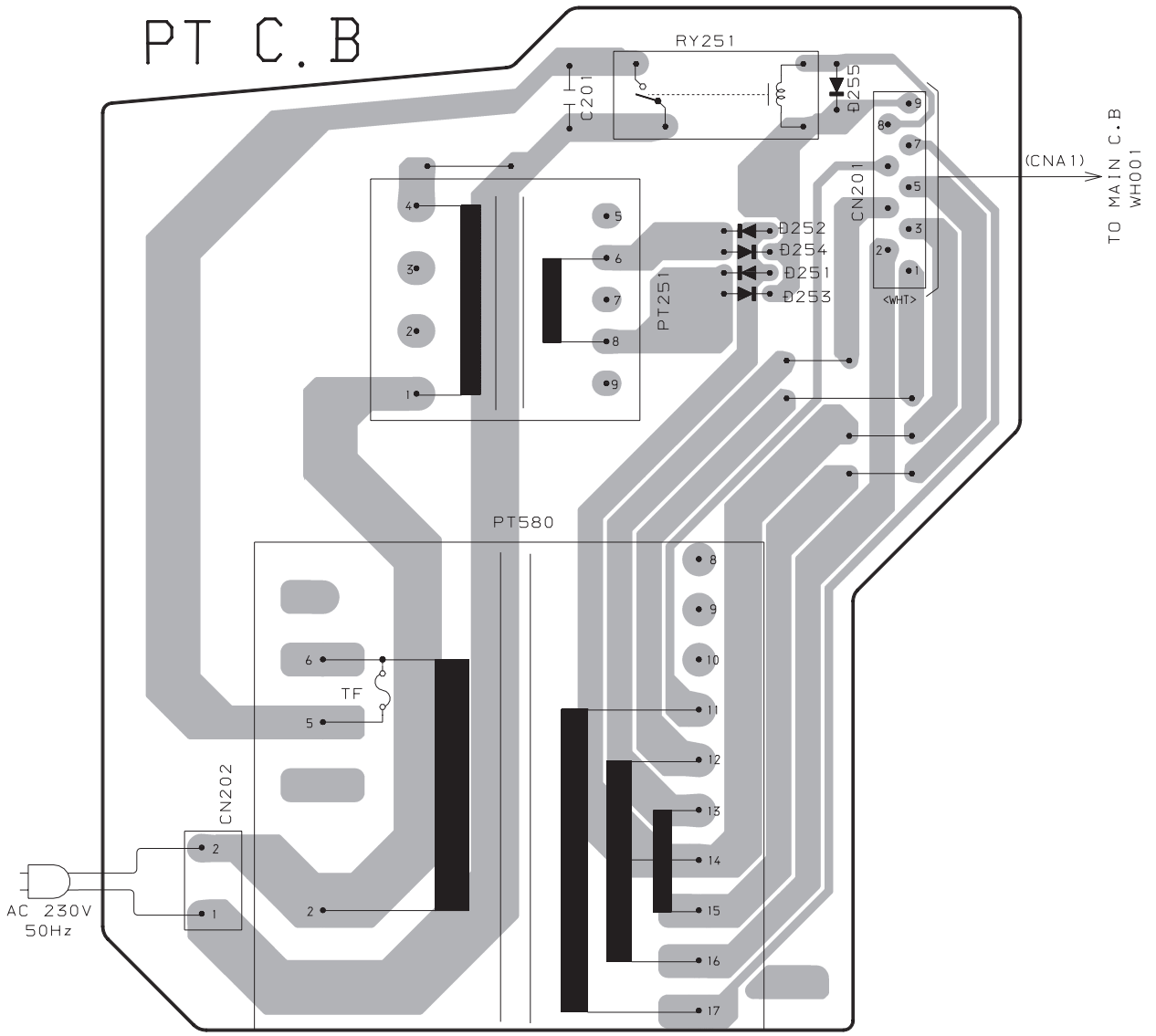


# AMP C.B

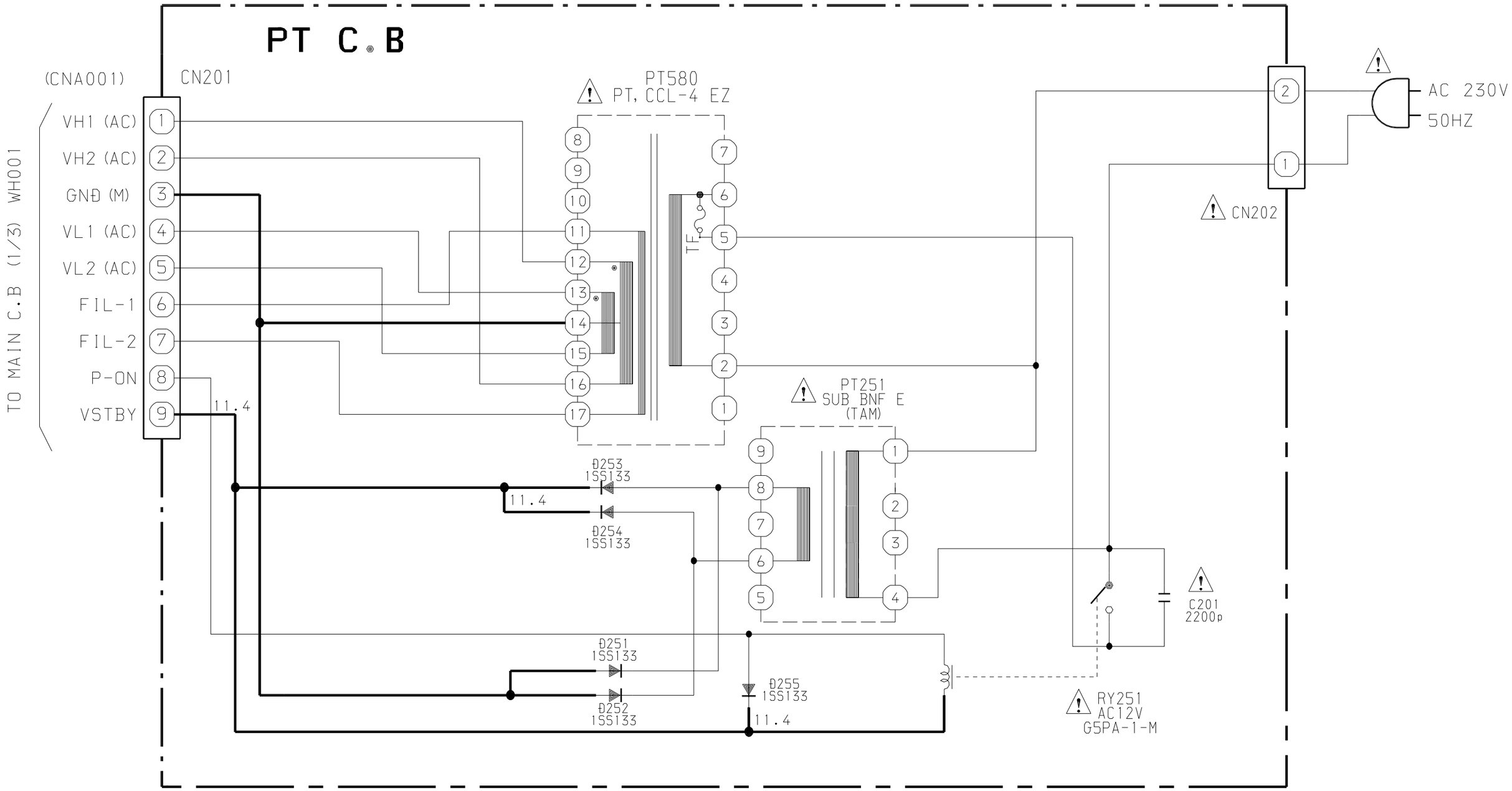
TO MAIN C.B CN603



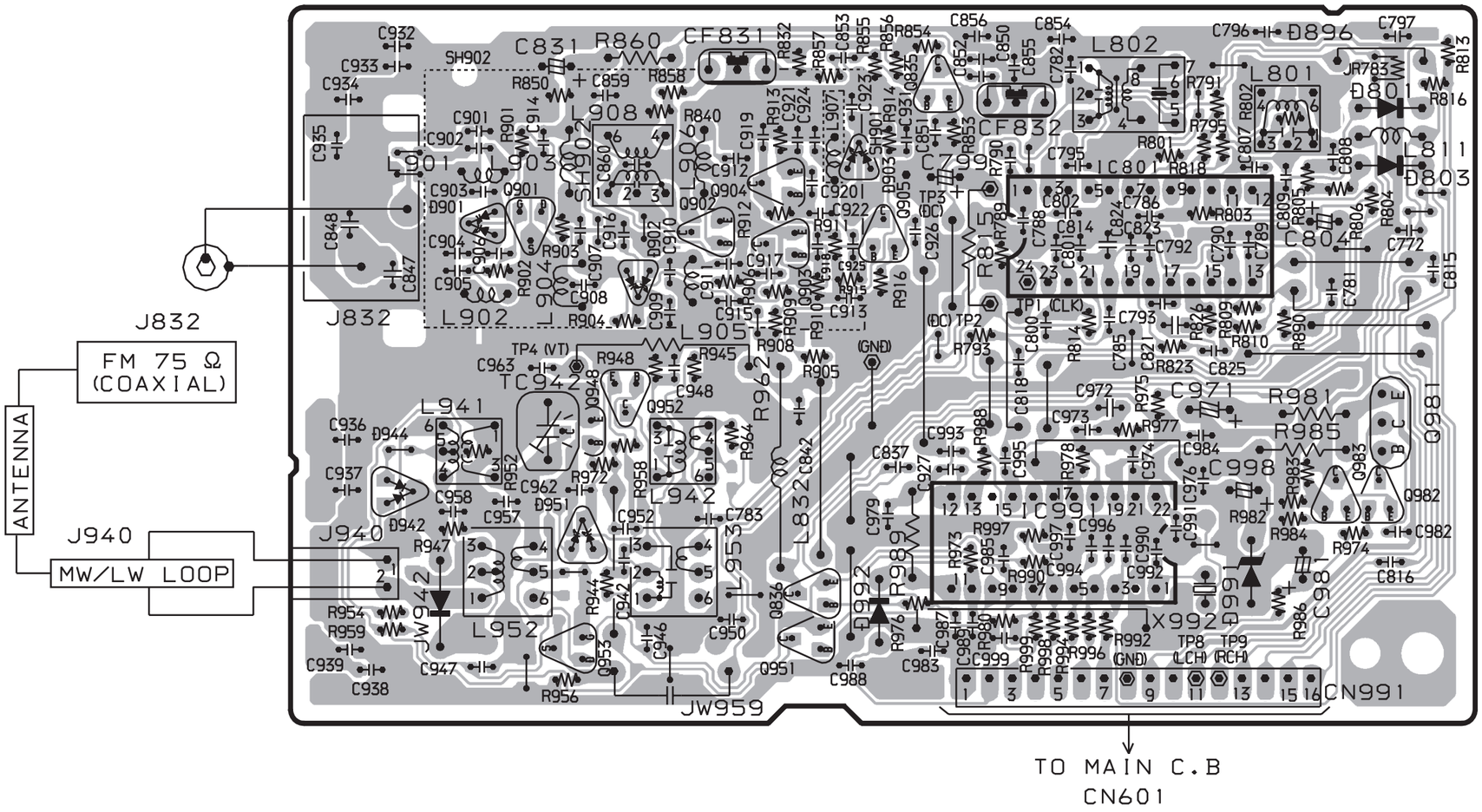

AMP C.B
Q103~106 DIFFERENTIAL AMPLIFIER
Q107~110 CURRENT MIRROR
Q111, 112 COMMON EMITTER AMPLIFIER
Q113, 114, 127, 128 SEEP BIAS
Q115, 116 EMITTER FOLLOWER
Q117~120 COMPLIMENTARY SEEP
TO MAIN C.B (1/3) CN603
CN101
L-IN
A-GND
R-IN
VCC
D-MUTE (NC)
HOLD
DC_DET
+VL
+VH
A-GND
GND
-VH
-VL
L-OUT
R-OUT
10.3
19.2
28.3
-28.3
-20.4
R101 2.2k
R102 2.2k
C103 4.7/50
C104 4.7/50
R103 22k
R104 22k
R105 27k
R106 27k
C107 100/25
C108 100/25
R111 1k
R112 1k
R123 2.2k
R125 2.2k
R124 2.2k
R126 2.2k
R107 100
R117 10k
R118 10k
R108 100
C109 47p
C110 47p
C111 22/35
C112 22/35
R113 18k
R114 18k
Q103 2SA1235F
Q104 2SA1235F
Q105 2SA1235F
Q106 2SA1235F
Q107 2SC3052F
Q108 2SC3052F
Q109 2SC3052F
Q110 2SC3052F
C123 820p
C124 820p
R165 1.5k
R166 1.5k
D103 1SS133
D104 1SS133
D117 1SS133
D118 1SS133
R119 100
R120 100
R121 100
R122 100
JR123 47P
JR124 47P
C113 47p
C114 47p
Q115 SBT5551
Q116 SBT5551
D119 1SS133
D120 1SS133
R169 270
R173 1.5k
R171 2.2k
R174 1.5k
R170 270
R172 2.2k
Q111 2N5551C
Q112 2N5551C
R109 100
R110 100
R175 330
R176 330
R151 47k
R179 10k
R127 39
R152 47k
R180 10k
R128 39
C105 820p
C106 820p
D105 1SS133
D106 1SS133
D107 1SS133
D108 1SS133
D115 MC2838
R157 4.7k
Q113 2SC3052F
Q114 2SC3052F
Q127 2SC3052F
Q128 2SC3052F
C117 0.1
C118 0.1
Q117 2SB1342
Q118 2SB1342
Q119 2SD1933
Q120 2SD1933
TH101 100K
TH102 100K
R137 100
R138 100
R133 3.3k
R134 3.3k
R135 1.5k
R136 1.5k
C119 0.01
C120 0.01
Q123 SBT5401
Q124 SBT5401
R141 1k
R142 1k
R155 3.9k
R156 3.9k
D150 MC2838
R131 0.22 1W
R132 0.22 1W
R129 0.22 1W
R130 0.22 1W
Q123, 124 OVER LOAD PROTECTOR
+VP
-VP
L CH
R CH
C099 0
SIGNAL: PB
Q126 SBT5401 OVER LOAD PROTECTOR
C133 4700p
R159 10k
R178 10k
D160 MC2838
R160 10k
R168 47k
C097 0.1
Q130 SBT5551 HOLD
R167 10k
C140 2200p
Q183 2SK2937
R199 2.2M
D192 1SS133
R184 1k
R185 10k
R187 3.3k
Q185 2SD1819A QRS
Q187 2SB1218A QRS
D189 MC2838
D191 MTZJ10C
R192 2.2k
R177 2.2k
C186 0.1
D193 1SS133
D187 MTZJ5.1B
D185 1N5402-B054
C188 10/50
C194 0.1
R195 47k
R197 47k
R163 4.7k
R199 2.7k
D186 1N5402-B054
D188 MTZJ5.6B
C187 10/50
C193 0.1
Q184 2SK2937
R158 2.7k
R190 2.7k
R194 10k
Q186 2SB1218A QRS
R196 47k
R198 47k
R162 4.7k
R164 4.7k
R186 2.2k
R188 1k
D190 MC2836
Q183, 184 VOLTAGE SW
Q185~187 AMPLIFIER OUTPUT LEVEL DET
Q265 SRA2202S
R257 1.8k
R260 47k
Q259 2SA1218A QRS
R259 10k
R268 100k
R269 100k
D265 MC2836
D262 MC2838
R272 47k
R271 47k
R252 100k
R266 100k
Q259, 265 OVER TEMPERATURE PROTECTION
DC-DET

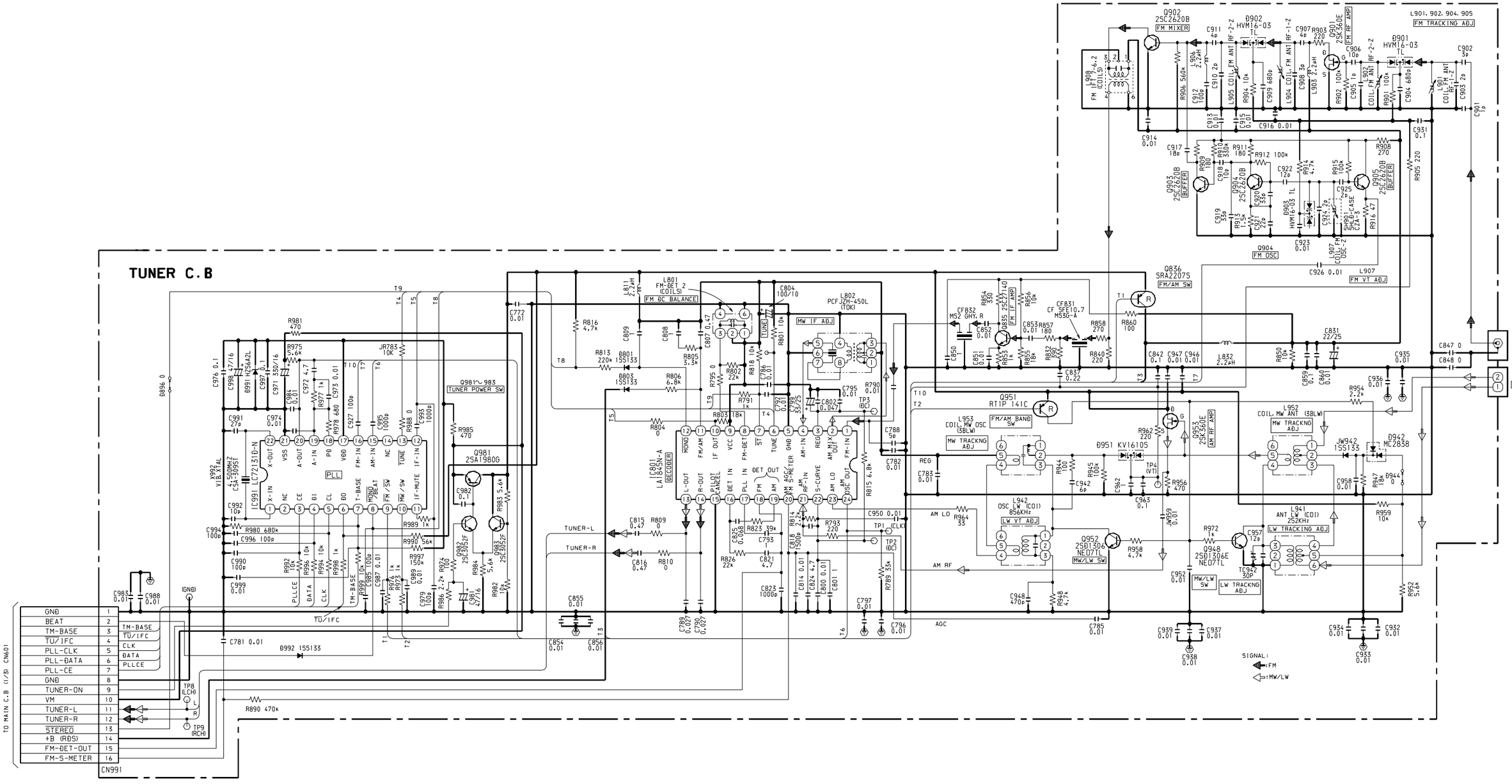

PT C.B
RY251
C201
D255
CN201
(CNA1)
TO MAIN C.B
WH001
D252
D254
D251
D253
PT251
<WHT>
PT580
TF
CN202
AC 230V
50Hz

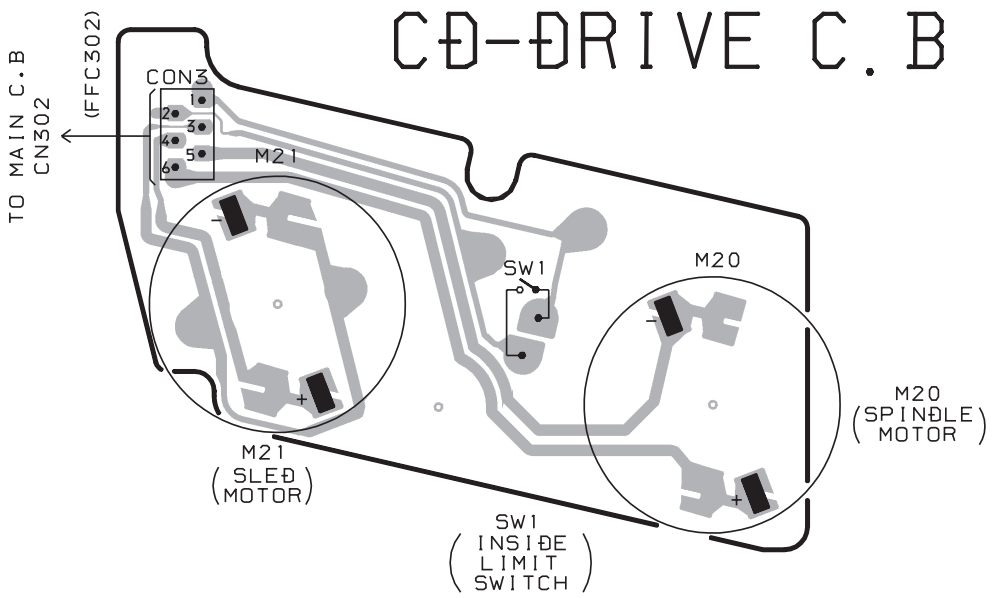
SCHEMATIC DIAGRAM – 6 (PT)

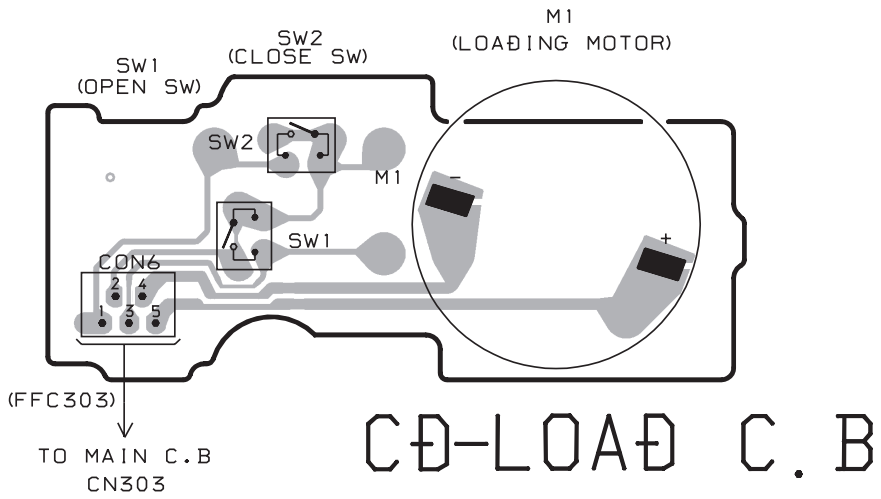


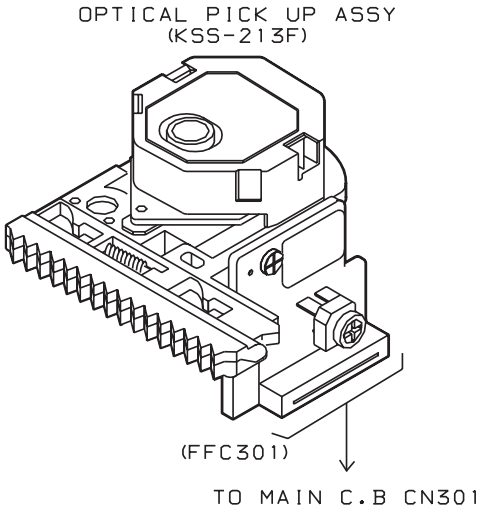
# TUNER C.B


J832
FM 75 Ω
(COAXIAL)
ANTENNA
J940
MW/LW LOOP
TO MAIN C.B
CN601
CN991
JW959
X9924
IC901
IC801
L902
L905
L906
L907
L908
L941
L942
L952
L953
L802
L801
L811
TC942
CF831
CF832
TP1 (CLK)
TP2
TP3
TP4 (VT)
TP8 (LCH)
TP9 (RCH)
(GND)


TUNER C.B
CN991
TO MAIN C.B (1/3) CN601
GND 1
BEAT 2
TM-BASE 3
TU/IFC 4
PLL-CLK 5
PLL-DATA 6
PLL-CE 7
GND 8
TUNER-ON 9
VM 10
TUNER-L 11
TUNER-R 12
STEREO 13
+B (RDS) 14
FM-DET-OUT 15
FM-S-METER 16
Q981 ~ 983 TUNER POWER SW
IC991 LC72131D-N
X992 VIB.XTAL 4.50MHZ CSA-309ST
PLL
Q981 2SA1980G
Q982 2SC3052F
Q983 2SC3052F
IC801 LA1845N-A DECODER
L801 FM-DET 2 (COILS) FM DC BALANCE
L802 PCFJZH-450L (TOK)
MW IF ADJ
TUNE
TP3 (DC)
TP4 (VT)
TP1 (CLK)
TP2 (DC)
TP8 (LCH)
TP9 (RCH)
D992 1SS133
D801 1SS133
D802 1SS133
Q902 2SC2620B FM MIXER
D902 HVM16-03 TL
Q901 2SK360E FM RF AMP
D901 HVM16-03
L901. 902. 904. 905 FM TRACKING ADJ
L903 FM ANT RF-1-Z
L904 FM ANT RF-1-Z
L905 FM ANT RF-2-Z
L906 FM ANT RF-2-Z
L907 FM VT ADJ
L908 FM ANT RF-1-Z
Q903 2SC2620B BUFFER
Q905 2SC2620B BUFFER
Q907 2SC2620B
Q904 FM OSC
D903 HVM16-03 TL
D904 1SV214
Q836 SRA2207S FM/AM SW
Q835 2SC2714O FM IF AMP
CF832 M52 GHY. R
CF831 CF 5FE10.7 M53G-A
Q951 RT1P 141C
FM/AM BAND SW
L953 COIL. MW OSC (5BLW)
MW TRACKNG ADJ
D951 KV1610S
Q953 2SK360E AM RF AMP
L952 COIL. MW ANT (5BLW)
MW TRACKNG ADJ
D942 MC2838
D944 0
L942 OSC LW (COI) 856KHz
LW VT ADJ
Q952 2SD1306 NE07TL MW/LW SW
L941 ANT LW (COI) 252KHz
LW TRACKING ADJ
Q948 2SD1306E NE07TL
MW/LW SW
LW TRACKNG ADJ
TC942 30P
J832 FM 75Ω (COAXIAL) ANTENNA
J940 MW/LW LOOP
TUNER-L
TUNER-R
AM LO
AM RF
AGC
TU/IFC
(GND)
SIGNAL: :FM :MW/LW

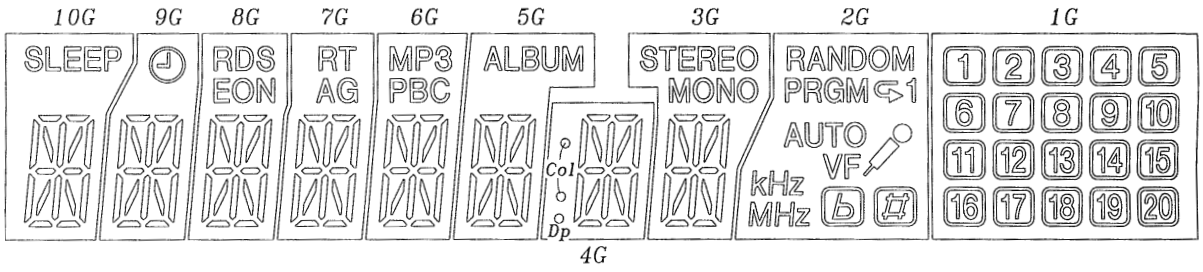

CD-DRIVE C.B
TO MAIN C.B
CN302
(FFC302)
CON3
M21
SW1
M20
M20
(SPINDLE
MOTOR)
M21
(SLED
MOTOR)
SW1
(INSIDE
LIMIT
SWITCH)

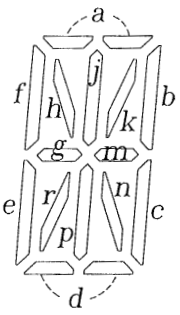

M1
(LOADING MOTOR)
SW2
(CLOSE SW)
SW1
(OPEN SW)
SW2
M1
SW1
CON6
(FFC303)
TO MAIN C.B
CN303
CD-LOAD C.B


OPTICAL PICK UP ASSY
(KSS-213F)
(FFC301)
TO MAIN C.B CN301

# FL (HNA – 10SM19) GRID ASSIGNMENT / ANODE CONNECTION / PIN CONNECTION

## GRID ASSIGNMENT




(10G–3G)

## ANODE CONNECTION

| | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
|---|---|---|---|---|---|---|---|---|---|---|
| P1 | – | – | – | – | – | – | – | – | – | 20 |
| P2 | d | d | d | d | d | d | d | d | – | 19 |
| P3 | n | n | n | n | n | n | n | n | – | 18 |
| P4 | p | p | p | p | p | p | p | p | – | 17 |
| P5 | r | r | r | r | r | r | r | r | – | 16 |
| P6 | e | e | e | e | e | e | e | e | – | 15 |
| P7 | c | c | c | c | c | c | c | c | – | 14 |
| P8 | g | g | g | g | g | g | g | g | – | 13 |
| P9 | m | m | m | m | m | m | m | m | – | 12 |
| P10 | f | f | f | f | f | f | f | f | ▭ | 11 |
| P11 | b | b | b | b | b | b | b | b | ♭ | 10 |
| P12 | k | k | k | k | k | k | k | k | MHz | 9 |
| P13 | j | j | j | j | j | j | j | j | kHz | 8 |
| P14 | h | h | h | h | h | h | h | h | ✎ | 7 |
| P15 | a | a | a | a | a | a | a | a | VF | 6 |
| P16 | – | – | – | – | – | – | col | – | AUTO | 5 |
| P17 | – | – | – | – | – | – | – | – | 1 | 4 |
| P18 | – | – | – | – | – | – | Dp | – | ↪ | 3 |
| P19 | – | – | EON | AG | PBC | – | – | MONO | PRGM | 2 |
| P20 | SLEEP | ◴ | RDS | RT | MP3 | ALBUM | – | STEREO | RANDOM | 1 |

## PIN CONNECTION

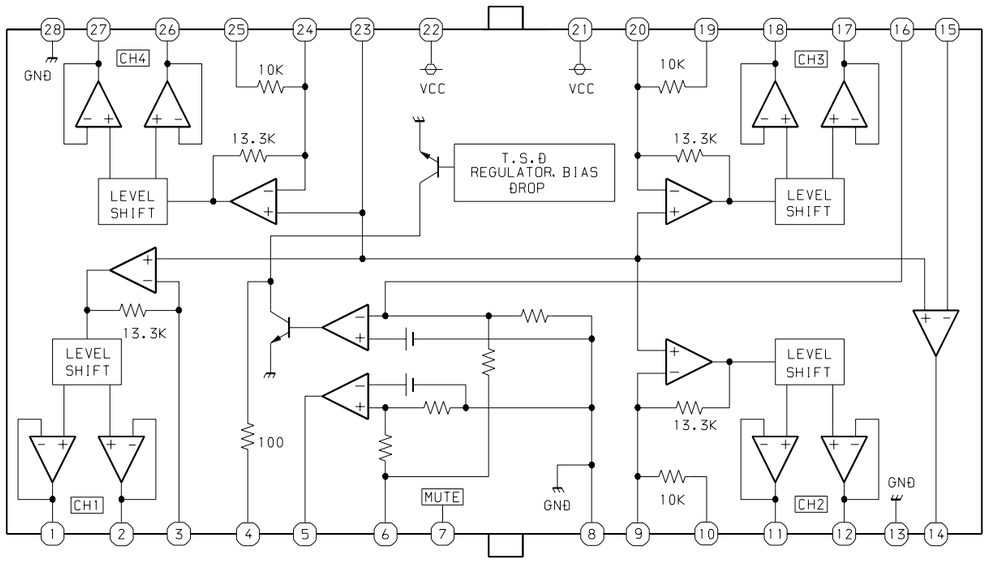
| PIN NO. | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38–25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTION | F2 | F2 | NP | NP | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G | NX | P20 | P19 | P18 | P17 | P16 | P15 | P14 | P13 | P12 | P11 | P10 | P9 | P8 | P7 | P6 | P5 | P4 | P3 | P2 | P1 | NP | NP | F1 | F1 |

◉ Note ◉

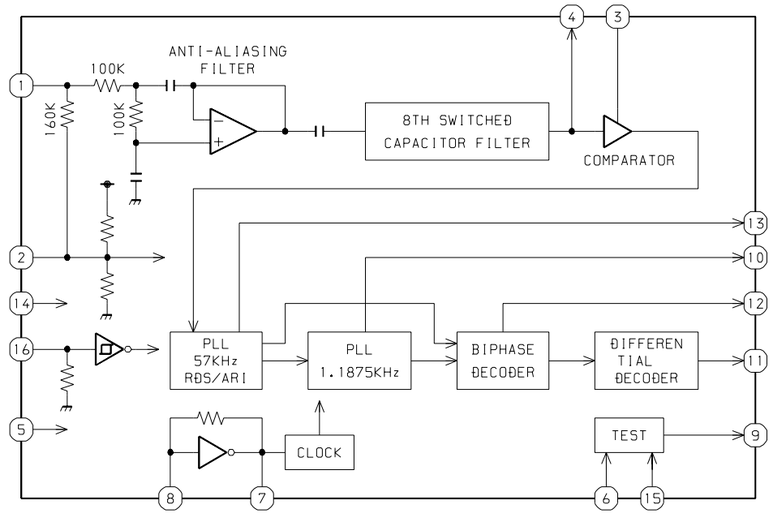
1) Fn : Filament pin
2) nG : Grid pin
3) Pn : Anode pin
4) NP : No pin
5) NX : No extened pin

# IC BLOCK DIAGRAM

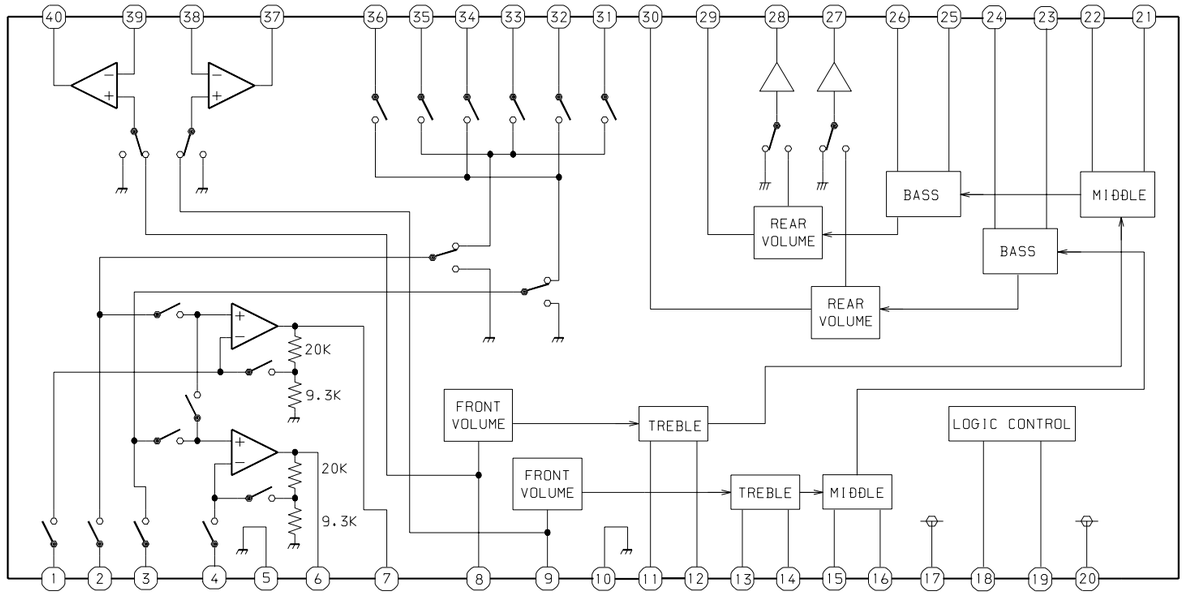
IC, BA5826FP



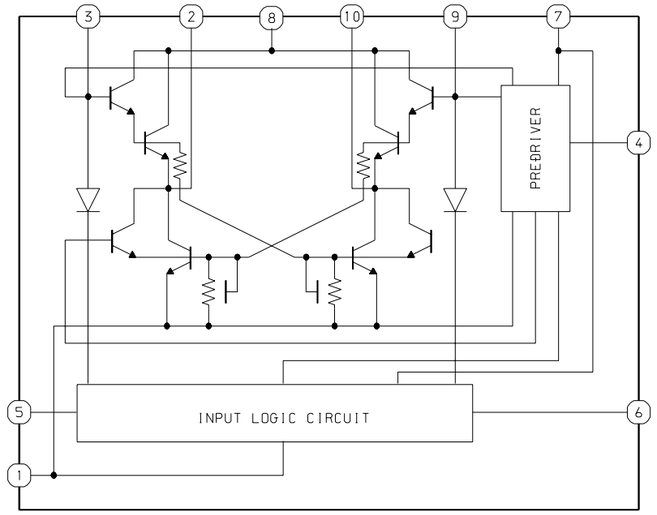

IC, BU1920FS



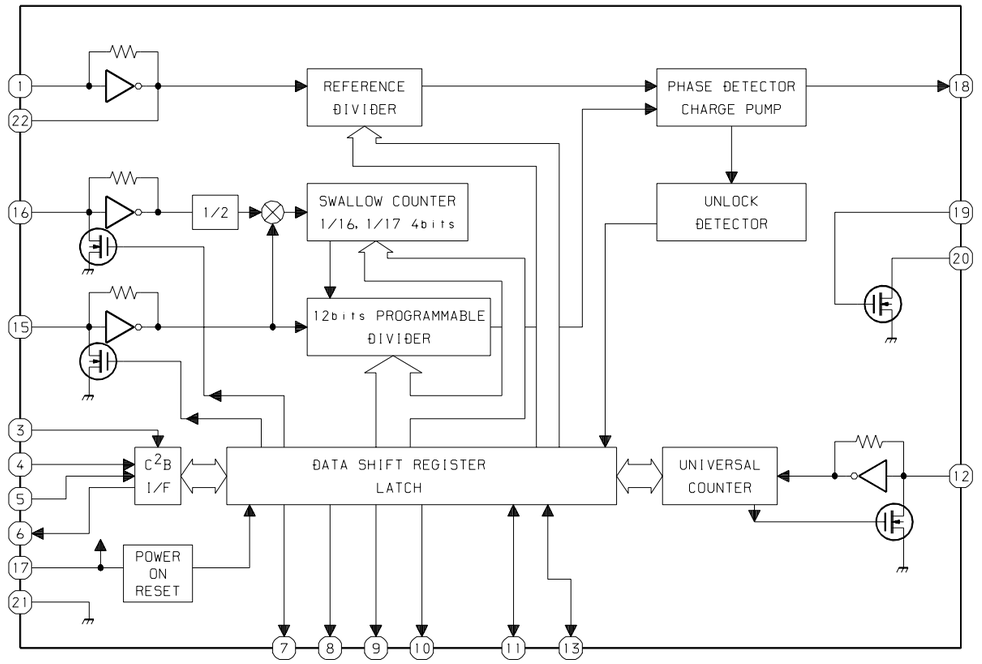

IC, BD3882FV



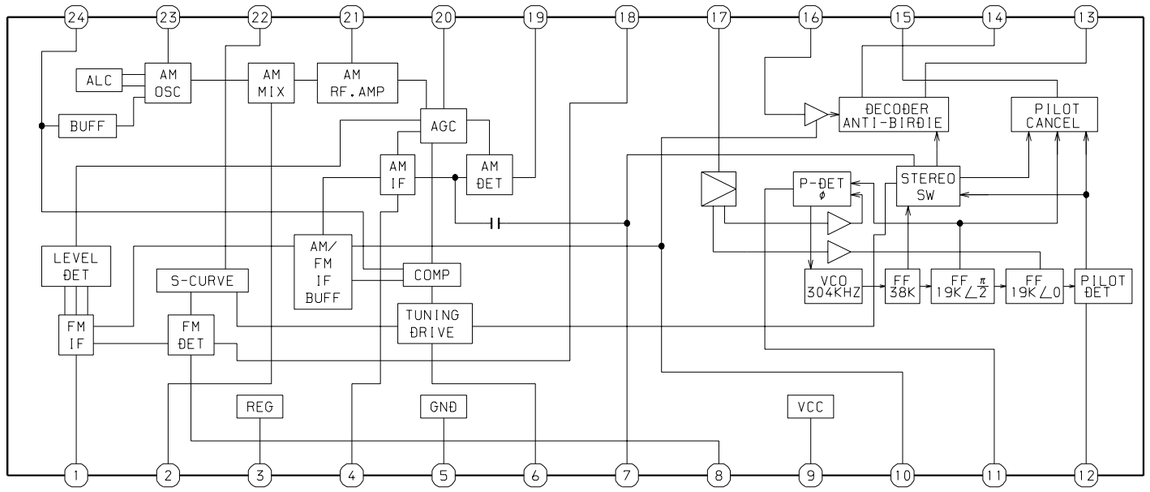
IC, LB1641




IC, LC72131D-N




IC, LA1845N-A



## IC DESCRIPTION

IC, LC876748A-5Z30

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | O-CD DATA | O | CD IC control data output. |
| 2 | O-CD ON | O | CD ON/$\overline{\text{OFF}}$ control output. (Not used) |
| 3 | O-CD OPEN | O | CD tray open signal output. |
| 4 | O-CD CLOSE | O | CD tray close signal output. |
| 5 | O-PLL CE | O | PLL IC control chip enable output. |
| 6 | O-PLL CLK | O | PLL IC control clock output. |
| 7 | O-PLL DATA | O | PLL IC control data output. |
| 8 | I-RDS DATA | I | RDS data input. <EZ only> |
| 9 | NC | – | Not connected. |
| 10 | O-CLKSFT | O | MICON clock shift output. |
| 11 | I-$\overline{\text{RESET}}$ | I | Reset input. |
| 12 | I-TUSIG | I | TUNER_SD detect input. <EZ only> |
| 13 | I-CD SW | I | CD switch input. |
| 14 | VSS1 | – | GND. |
| 15 | CF1 | I | 9.43MHz oscillator circuit. |
| 16 | CF2 | O | |
| 17 | VDD1 | – | Power supply. |
| 18 | I-$\overline{\text{HOLD}}$ | I | Power failure detection input. |
| 19 | I-LEVEL | I | Signal level input. (Not used) |
| 20 | I-$\overline{\text{STEREO}}$ | I | Tuner stereo detect input. |
| 21 | I-$\overline{\text{TUNE}}$/IFC | I | Tune IF count serial data input. |
| 22 | I-ENC VOL | I | Rotary encoder VOLUME input. |
| 23 | I-ENC TRE | I | Rotary encoder TREBLE input. |
| 24 | I-ENC BASS | I | Rotary encoder BASS input. |
| 25 ~ 26 | I-KEY2 ~ I-KEY1 | I | Key input. |
| 27 | I-TMBASE | I | Reference clock input for watch. |
| 28 | I-RDS CLK | I | RDS clock input. <EZ only> |
| 29 | I-REM | I | System remote control signal input. |
| 30 | G11 | O | FL grid output G11. (Not used) |
| 31 ~ 40 | G10 ~ G1 | O | FL grid output G10 ~ G1. |
| 41 ~ 45 | P20 ~ P16 | O | FL segment output P20 ~ P16. |
| 46 | VDD3 | – | Power supply. |
| 47 ~ 50 | P15 ~ P12 | O | FL segment output P15 ~ P12. |
| 51 | FIXO | – | Connected to GND. |
| 52 ~ 62 | P11 ~ P1 | O | FL segment output P11 ~ P1. |
| 63 ~ 65 | NC | – | Not connected. |
| 66 | I-TU SEL1 | I | |
| 67 | I-TU SEL2 | I | |
| 68 | I-TU SEL3 | I | |

| | SEL1 | SEL2 | SEL3 |
|---|---|---|---|
| U/LH | H | H | H |
| D | H | H | L |
| HR | H | L | L |
| K | H | L | H |
| EZ | L | H | H |
| V | L | L | H |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 69 | I-DEMO OFF | I | Initial DEMO OFF/$\overline{\text{ON}}$. (Not used) |
| 70 | I-ECO OFF | I | Initial ECO OFF/$\overline{\text{ON}}$. (Connected to pull-down resistor) |
| 71 | NC | – | Not connected. |
| 72 | VDD4 | – | Power supply. |
| 73 ~ 84 | NC | – | Not connected. |
| 85 | O-TU ON | O | Tuner ON/$\overline{\text{OFF}}$ control output. |
| 86 | O-FUNC CLK | O | FUNCTION IC control clock output. |
| 87 | O-FUNC DATA | O | FUNCTION IC control data output. |
| 88 | O-$\overline{\text{POWER}}$ | O | System power supply $\overline{\text{ON}}$/OFF output. |
| 89 | VSS2 | – | GND. |
| 90 | VDD2 | – | Power supply. |
| 91 | O-MUTE | O | Audio mute ON/$\overline{\text{OFF}}$ control output. (Not used) |
| 92 | O-$\overline{\text{LMUTE}}$ | O | Line mute $\overline{\text{ON}}$/OFF control output. |
| 93 | O-$\overline{\text{STBY}}$ | O | Standby LED $\overline{\text{ON}}$/OFF control output. |
| 94 ~ 95 | NC | – | Not connected. |
| 96 | I-CD DRF | I | Detect CD RF level input. |
| 97 | I-CD WRQ | I | Standby for CD sub-code Q output input. |
| 98 | I-CD SUBQ | I | CD IC data input. |
| 99 | O-CD CE | O | CD IC control chip enable output. |
| 100 | O-CD CLK | O | CD IC control clock output. |

IC, LC78646E

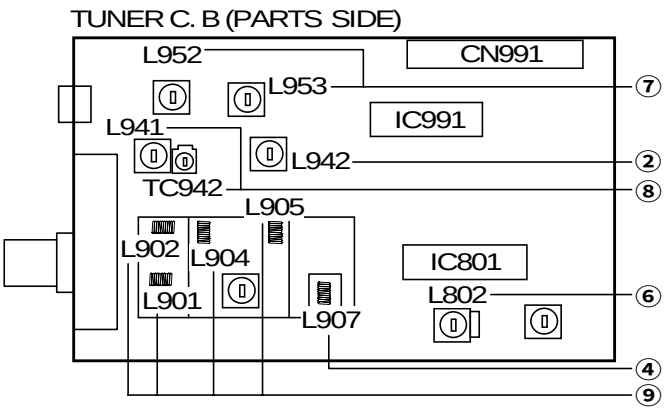
| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | SLCO | O | Slice level control output. |
| 2 | SLCIST | I | SLCO output current adjustment resistor connection pin. |
| 3 | EFMIN | I | RF signal input pin. |
| 4 | RF | O | RF monitor pin. |
| 5 | RFVDD | – | RF power supply pin. |
| 6 | RFVSS | – | RF ground pin. (Connected to 0V) |
| 7 | FIN1 | I | A+C signal input pin. |
| 8 | FIN2 | I | B+D signal input pin. |
| 9 | TIN1 | I | E signal input pin. |
| 10 | TIN2 | I | F signal input pin. |
| 11 | VREF | O | VREF voltage output pin. |
| 12 | REF1 | I | Reference voltage setting pin. |
| 13 | FE | O | FE signal monitor pin. |
| 14 | TEC | O | TE signal low pass filter capacitor connection pin. |
| 15 | TE | O | TE signal monitor pin. (Not used) |
| 16 | RFMON | O | RF internal signal monitor pin. (Not used) |
| 17 | JITTC | – | Jitter detection capacitor connection pin. |
| 18 | ADAVDD | – | Servo A/D, D/A supply pin. |
| 19 | ADAVSS | – | Servo A/D, D/A ground pin. (Connected to 0V) |
| 20 | TDO | O | Tracking control output pin. D/A output. |
| 21 | FDO | O | Focus control output pin. D/A output. |
| 22 | SPDO | O | Spindle control output pin. D/A output. |
| 23 | SLDO | O | Sled control output pin. D/A output. |
| 24 | GPDAC | O | Servo D/A general purpose output pin. (Not used) |
| 25 | CONT4-DRVMUTE | I/O | General purpose input/output pin 4. (Used as a CD driver mute pin) |
| 26 | CONT5 | I/O | General purpose input/output pin 5. (Not used) |
| 27 | SBCK/CONT6-SWIL | I/O | Sub-code read clock input pin / General purpose input/output pin 6.<br>(Used as a CD pickup inside limit switch pin) |
| 28 | SBCK/FG | I | Sub-code read clock input pin / FG signal input pin/external emphasis setting pin.<br>Set to command pin function. (Connected to 0V) |
| 29 | DEFECT | O | Defect pin. (Not used) |
| 30 | V/P | O | Rough servo/phase control automatic switching monitor output pin.<br>"H" for rough servo and "L" for phase servo. (Not used) |
| 31 | FSEQ | O | Synchronization signal detection output pin.<br>Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used) |
| 32 ~ 36 | MONI1 ~ MONI5 | O | Internal signal monitor pin 1 ~ 5. (Not used) |
| 37 | VSS | – | Digital ground pin. (Connected to 0V) |
| 38 | VDD | – | Digital power supply pin. |
| 39 | DOUT | O | Digital OUT output pin. |
| 40 | TEST | I | Test input pin. (Connected to 0V) |

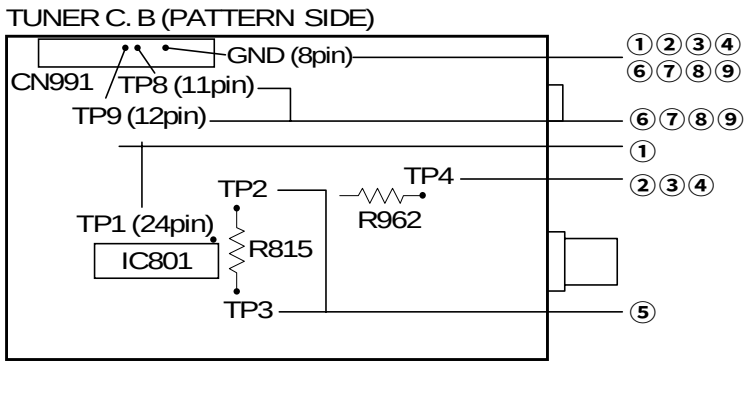
| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 41 | LVDD | – | Left channel power supply pin. |
| 42 | LCHO | O | Left channel output pin. |
| 43 | LVSS | – | Left channel ground pin. (Connected to 0V) |
| 44 | RVSS | – | Right channel ground pin. (Connected to 0V) |
| 45 | RCHO | O | Right channel output pin. |
| 46 | RVDD | – | Right channel power supply pin. |
| 47 | XVDD | – | Crystal oscillator power supply pin. |
| 48 | XOUT | O | Connections for a 16.9344MHz crystal oscillator pin. |
| 49 | XIN | I | |
| 50 | FSX/16MIN | I/O | 7.35kHz synchronization signal output pin / DF, DAC external clock input pin. (Not used) |
| 51 | XVSS | – | Crystal oscillator ground pin. (Connected to 0V) |
| 52 | C2F | O | C2 flag output pin. (Not used) |
| 53 | EFLG | O | C1, C2 error correction monitor pin. (Not used) |
| 54 | 16MOUT | O | 16.9344MHz output pin. (Not used) |
| 55 | ASLRCK | I | Left/Right clock input pin during anti-shock mode. (Connected to 0V) |
| 56 | ASDACK | I | Bit clock input pin during anti-shock mode. (Connected to 0V) |
| 57 | ASDFIN | I | Left/Right channel data input pin during anti-shock mode. (Connected to 0V) |
| 58 | LRSY | O | Left/Right clock output pin. (Not used) |
| 59 | DATACK | O | Bit clock output pin. (Not used) |
| 60 | DATA | O | Left/Right channel data output pin. (Not used) |
| 61 | CE | I | Chip enable signal input pin. |
| 62 | CL | I | Data transfer clock input pin. |
| 63 | DI | I | Data input pin. |
| 64 | DO | O | Data output pin. (Nch open drain output) |
| 65 | WRQ | O | Interruption signal output pin. |
| 66 | RES | I | Reset input pin. This pin must be set low briefly after power is first applied. |
| 67 | DRF | O | Focus ON detect pin. |
| 68 | VDD5 | – | Microprocessor interface power supply pin. |
| 69 | VSS | – | Digital ground pin. (Connected to 0V) |
| 70 ~ 72 | CONT3 ~ CONT1 | I/O | General purpose input/output pin 3 ~ 1. |
| 73 | PDO1 | O | Phase comparison output pin 1 to control built-in VCO. |
| 74 | PDO2 | O | Phase comparison output pin 2 to control built-in VCO. |
| 75 | VVSS | – | Built-in VCO ground pin. (Connected to 0V) |
| 76 | PCKIST | I | Resistor connection pin to set current for PDO1 and PDO2 outputs. |
| 77 | VVDD | – | Built-in VCO power supply pin. |
| 78 | FR | I | Resistor connection pin to set the frequency range of built-in VCO. |
| 79 | LDS | I | Laser power detection signal input pin. |
| 80 | LDD | O | Laser power control signal output pin. |

IC, LC72131D-N

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>X-IN</td><td>I</td><td rowspan="2">A crystal oscillator (4.5MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>X-OUT</td><td>O</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not connected.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC876748A-5Z30) when relevant key is operated.<br>Active "H".</td></tr>
<tr><td>5</td><td>CL</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC876748A-5Z30).</td></tr>
<tr><td>7</td><td>T-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / $\overline{\text{SW}}$</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$ / SW</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IF-IN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not connected.</td></tr>
<tr><td>15</td><td>AM-IN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM-IN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>A-IN</td><td>I</td><td rowspan="2">The MOS transistor used for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>A-OUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

**TUNER ADJUSTMENT**



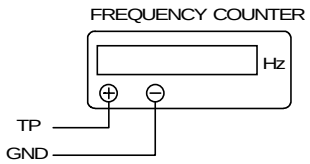




**1. CLOCK CHECK**

Requirement

Measuring equipment: Frequency counter
Test point: TP1 (CLK), GND

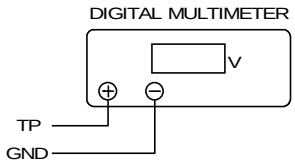
(1) Adjust the reception frequency of the main unit to 1710kHz.
(2) Check that the test point frequency is 2160kHz±0.045kHz.




**2. VT ADJUSTMENT (LW)**

Requirement

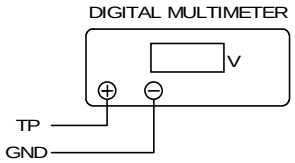
Measuring equipment: Digital multi-meter
Test point: TP4 (R962), GND
Adjustment point: L942
(1) Adjust the reception frequency of the main unit to 144kHz.
(2) Adjust L942 until the test point voltage (VT) is 1.3V±0.05V.




**3. VT CHECK (MW)**

Requirement

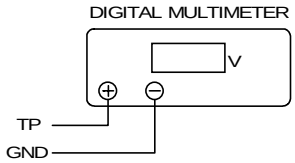
Measuring equipment: Digital multi-meter
Test point: TP4 (R962), GND
(1) Adjust the reception frequency of the main unit to 531kHz.
(2) Check that the test point (VT) voltage is about 0.5V.
(3) Adjust the reception frequency of the main unit to 1602kHz.
(4) Check that the test point (VT) voltage is below 8.0V.




**4. VT ADJUSTMENT (FM)**

Requirement

Measuring equipment: Digital multi-meter
Test point: TP4 (R962), GND
Adjustment point: L907
(1) Adjust the reception frequency of the main unit to 108.0MHz.
(2) Adjust L907 until the test point voltage (VT) is 7.0V±0.1V.
(3) Adjust the reception frequency of the main unit to 87.5MHz.
(4) Check that the test point (VT) voltage is about 0.5V.

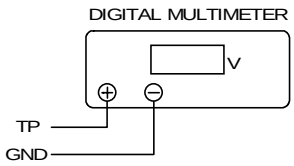


**5. DC BALANCE CHECK (FM)**

Requirement

Measuring equipment: Digital multi-meter

Test point: TP2, 3

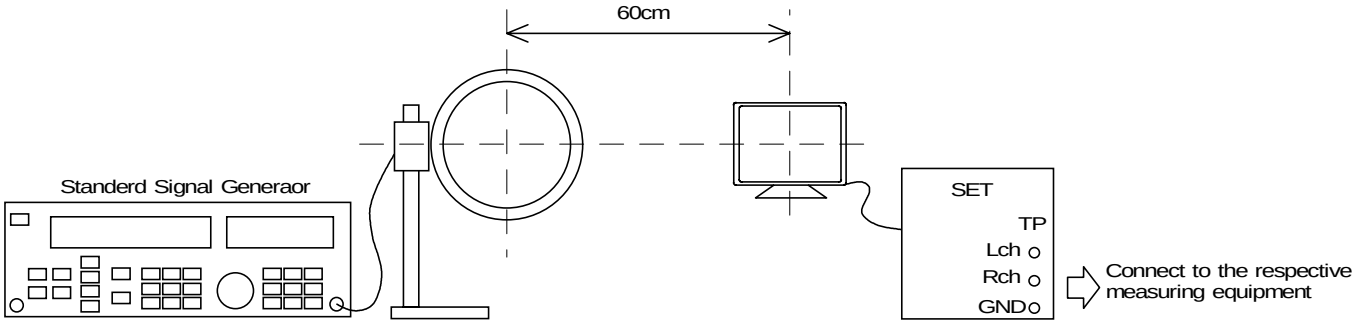



(1) Adjust the reception frequency of the main unit to 98.0MHz.

(2) Check that the test point voltage difference between TP2 and TP3 is 0mV±500mV.

**<LW / MW ADJUSTMENT>**

For LW / MW adjustment, do wiring and connection as in the following.



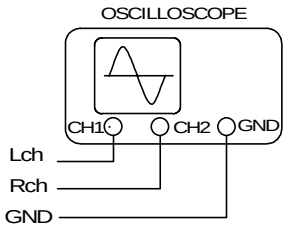

**6. IF ADJUSTMENT (MW)**

Requirement

Measuring equipment: Oscilloscope or Millivoltmeter

Test point: TP8(Lch), TP9(Rch), GND

Adjustment point: L802




(1) Adjust the setting of Standard Signal Generator (hereinafter S.S.G.) to 999kHz of 30% variation.

(2) Adjust the receiving frequency of the main unit at 999kHz.

(3) While looking at the waveform on the oscilloscope, reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).

(4) Adjust L802 until the waveform of the oscilloscope reaches the maximum.

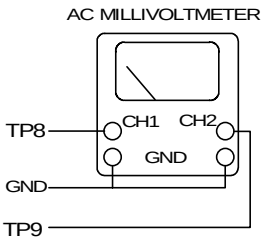
**7. TRACKING ADJUSTMENT (MW)**

Requirement

Measuring equipment: Millivoltmeter

Test point: TP8(Lch), TP9(Rch), GND

Adjustment point: L952, L953




(1) Adjust the S.S.G. setting to 999kHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).

(2) Adjust the reception frequency of the main unit to 999kHz.

(3) Adjust L952 until the value of the millivoltmeter reaches the maximum.

(4) Adjust the S.S.G. setting to 603kHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).

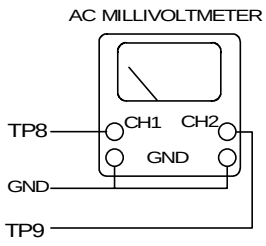
(5) Adjust the reception frequency of the main unit to 603kHz.

(6) Adjust L953 until the value of the milivoltmeter reaches the maximum.

(7) Repeat the adjustment 2 or 3 times from step 1 to 6 above.

**8. TRACKING ADJUSTMENT (LW)**

Requirement




Measuring equipment: Millivoltmeter

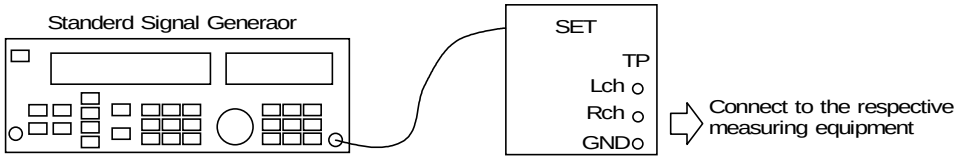
Test point: TP8(Lch), TP9(Rch), GND

Adjustment point: L941, TC942

(1) Adjust the S.S.G. setting to 144kHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).
(2) Adjust the reception frequency of the main unit to 144kHz.
(3) Adjust L941 until the value of the millivoltmeter reaches the maximum.
(4) Adjust the S.S.G. setting to 290kHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).
(5) Adjust the reception frequency of the main unit to 290kHz.
(6) Adjust TC942 until the value of the milivoltmeter reaches the maximum.
(7) Repeat the adjustment 2 or 3 times from step 1 to 6 above.

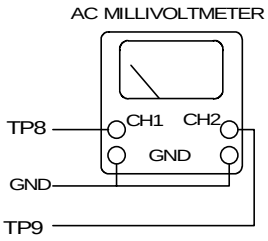
**<FM ADJUSTMENT>**

For adjusting FM, do wiring function and connection as in the following.




**9. TRACKING ADJUSTMENT (FM)**

Requirement




Measuring equipment: Millivoltmeter

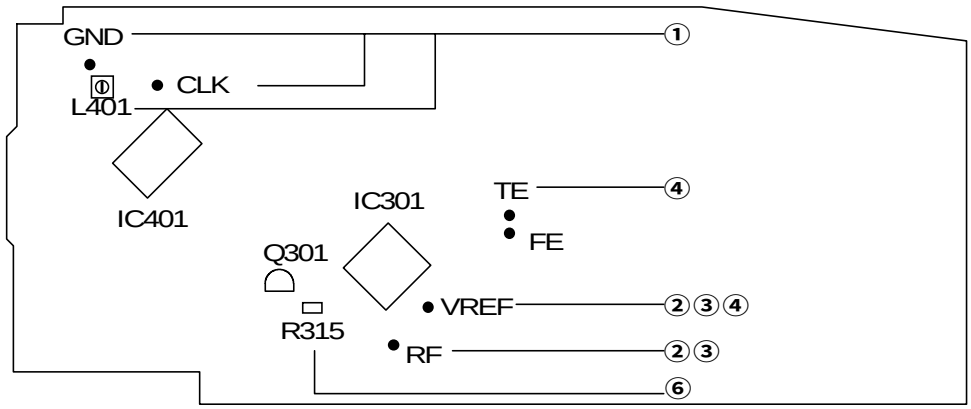
Test point: TP8(Lch), TP9(Rch), GND

Adjustment point: L905, L904, L902, L901

(1) Adjust the S.S.G. setting to 144kHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).
(2) Adjust L905 > L904 > L902 > L901 until the value of the milivoltmeter reaches the maximum.
(3) Adjust L901 > L902 > L904 > L905 until the value of the milivoltmeter reaches the maximum.
(4) Repeat the adjustment 2 or 3 times from step 2 to 3 above.

**CLOCK ADJUSTMENT AND CD CHECK**

MAIN C. B (PATTERN SIDE)




**1. CLOCK ADJUSTMENT**

Requirement

Test point: CLK, GND

Adjustment point: L401

1) While pressing and holding down the POWER button and the TUNER / BAND button, insert the AC plug to outlet.
2) Adjust L401 so that the oscilloscope indicates the frequency within 347.661Hz～348.357Hz.

**CD CHECK**

Perform the adjustments after the main unit enters the test mode.

Place the CD mechanism on level ground.

Equipment and tools required.

Measuring equipment

Digital multi-meter

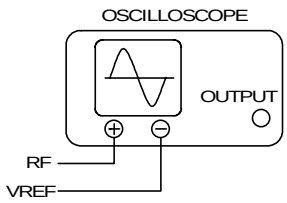
Jitter meter (KIKUSUI 6235)

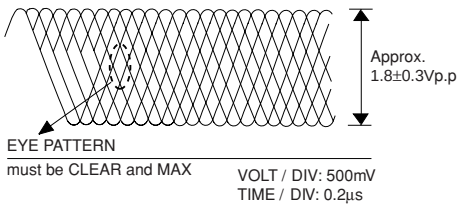
Test disc: TCD-782

ATD-001

**2. RF WAVEFORM CHECK**

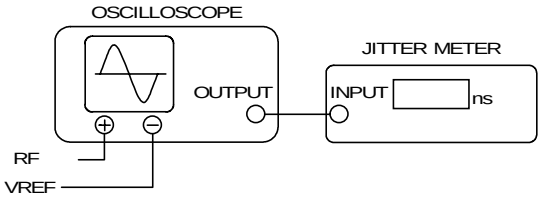
1) Connect oscilloscope to the test point RF and VREF.
2) Play back the 2nd track of TCD-782.
3) Check that the RF waveform has the maximum amplitude and the center of the wedge waveform has the clear blank.



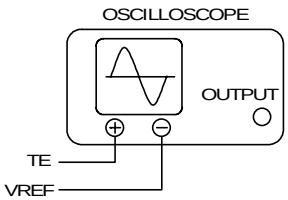
### 3. JITTER CHECK

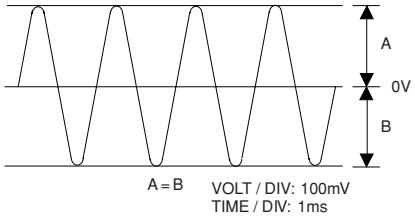
1) While oscilloscope is kept connected in the same test point as in step2. RF WAVEFORM CHECK, connect the output terminal of an oscilloscope to the input terminal of the jitter meter.
2) Set the VOLT range selector of oscilloscope to 500mV range or below.
3) Play back 2nd track of TCD-782.
4) Check that jitter meter indicates 28.0ns or less.




### 4. TRACKING BALANCE CHECK

1) Connect the TE and VREF to the oscilloscope.
2) Playback the second track of TCD-782 and press the PAUSE button.
3) Check that the traverse waveforms of oscilloscope are up and down symmetrical.




### 5. PLAYABILITY CHECK

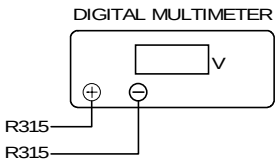
1) Play back the 3rd , 8th and 13th track of ATD-001. Check that the noise does not occur sound skipping does not occur.

### 6. LASER CURRENT CHECK

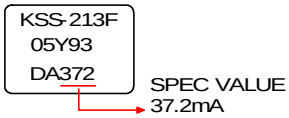
*Do not perform this measurement unless the laser is suspected to be defective.

1) Connect digital multi-meter across the resistor R315 (3.3ohm).
2) Play back the TCD-782 and check the DC voltage value on the digital multi-meter.
3) Calculate the laser current (Iop) by dividing the DC voltage across R315 by the resistor value (R315= 3.3ohm).

   Check that the laser current (Iop) is SPEC value ±10%.




EXAMPLE



# CD TEST MODE

1. How to Start the CD Test Mode
   While pressing the CD PLAY button, insert the AC plug to the power outlet.
   When the test mode is started, the all indicators light is displayed.

2. How to Exit the CD Test Mode
   Press the POWER button, push other FUNCTION button or disconnect the AC plug.

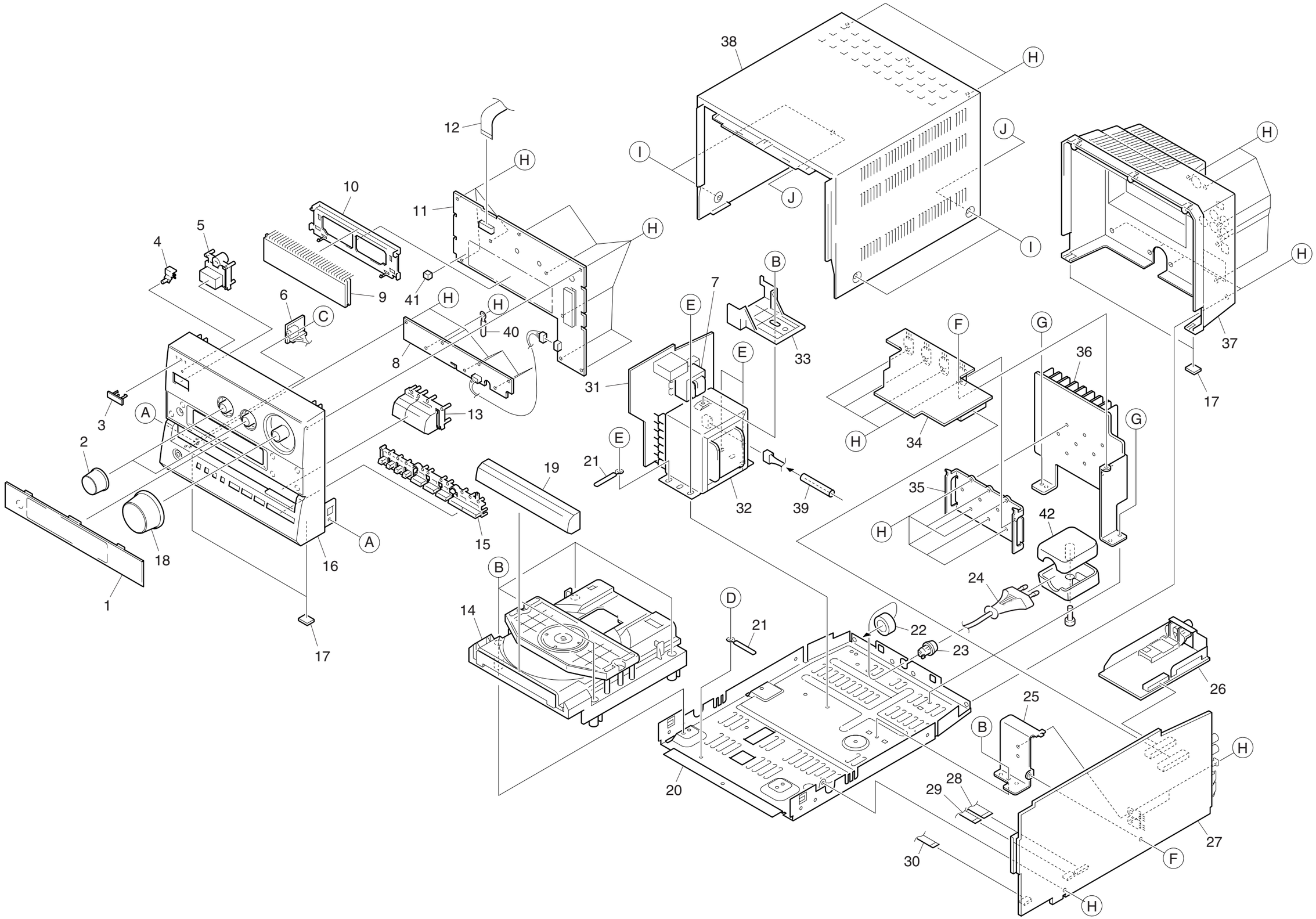
3. Function Descriptions and Application of the CD Test Mode

| No. | Mode | Operation | Display | Function | Checking item |
|---|---|---|---|---|---|
| 1 | Start mode | | All indicators light | • All FL indicators light | • FL check<br>• Microprocessor check |
| 2 | Search mode | STOP button | READING | • LD illuminates all the time<br>• Focus search continuous operations ∗1<br>• Spindle motor continuous kick | • APC circuit check<br>• Laser current measurement<br>• Focus search waveform check<br>• Focus error waveform check<br>(DRF in the search mode is ignored) |
| 3 | Play mode | Play button | Normal | • Normal playback<br>• If TOC cannot be read, focus search is continued | • Each servo circuit is checked<br>• DRF check |
| 4 | Traverse mode | PAUSE button | Normal | • Tracking servo OFF/ON<br>• Each time PAUSE button is pressed, the tracking servo repeats turning OFF/ON | • Tracking balance check |
| 5 | Sled mode | FF button | CD TEST | • Pickup moves to the inner circumference ∗2<br>At the same time, lens kicks to the inner circumference | • Sled circuit check<br>• Tracking circuit check<br>• Mechanism operation check<br>• Pickup check |
| | | RWD button | CD TEST | • Pickup moves to the outer circumference ∗2<br>At the same time, lens kicks to the outer circumference | |
| 6 | Spindle mode | ENTER or SET button | All indicators light | • The spindle motor rotates forward (rough speed) by pressing the button and rotates backward by pressing one more time and stops by pressing again | • Spindle circuit<br>• Spindle motor |

∗1: The driver IC heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer.
There can be a case that operations can not be performed correctly.
In such a case, turn off the main power. After cooling down the machine, restart the machine.

∗2: Be careful not to damage the gear because the sled motor rotates while the FF or RWD button is being pressed even if the pick-up is located in the innermost track or the outermost track.

MECHANICAL EXPLODED VIEW



# MECHANICAL PARTS LIST

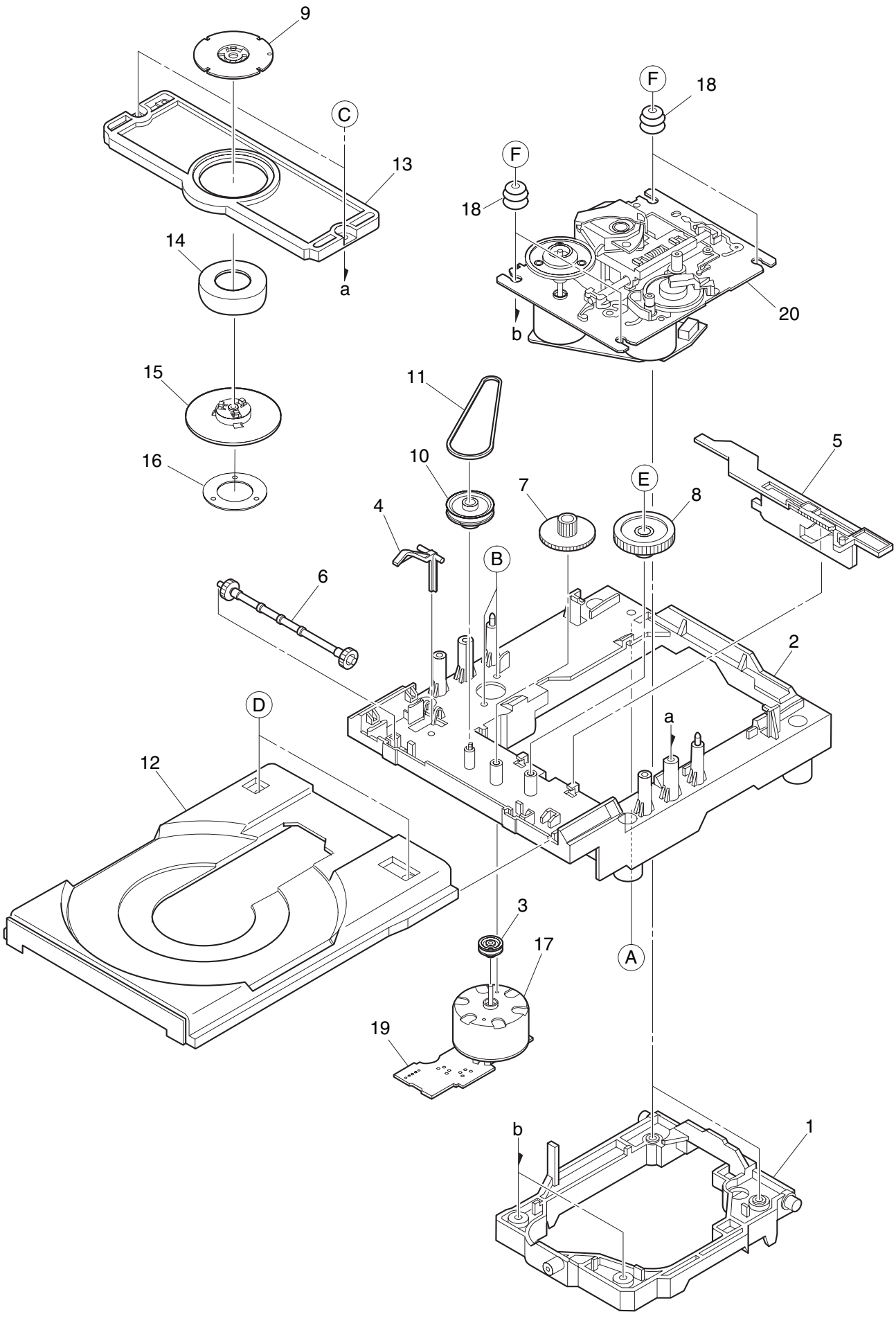
! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL CX-LEM60 KSM | CX-LEM61 EZSM |
|---|---|---|---|---|---|---|---|
| | | O | MC1001 | 8C-CL4-017-010 | WINDOW,ASSY DISPLAY K | a | . |
| | | O | MC1001 | 8C-CL4-006-010 | WINDOW,ASSY DISPLAY | . | b |
| | | X | MC1001a | 8C-CL4-018-010 | WINDOW,DISPLAY K | a | . |
| | | X | MC1001a | 8C-CL4-005-010 | WINDOW,DISPLAY | . | b |
| | | X | MC1001b | 8C-CL4-209-010 | SH,ADH WINDOW | a | b |
| | | O | MC1002 | 8C-CL4-008-010 | KNOB,RTRY BT | a | b |
| | | O | MC1003 | 8Z-CC3-007-010 | BADGE,AIWA 27.5 ABS SIL | a | b |
| | | O | MC1004 | 8C-CL4-010-010 | REFLECTOR,POWER | a | b |
| | | O | MC1005 | 8C-CL4-009-010 | KEY,POWER | a | b |
| | | X | MC1006 | 8C-CL4-615-010 | PWB,HP | a | b |
| | ! | O | MC1007 | 8B-NF9-665-010 | PT,SUB BNF E (TAM) | a | b |
| | | X | MC1008 | 8C-CL4-613-010 | PWB,KEY | a | b |
| | | S | MC1009 | 8C-CL4-630-010 | FL,HNA-10SM19 | a | b |
| | | X | MC1010 | 8C-CL4-202-010 | GUIDE,FL | a | b |
| | | X | MC1011 | 8C-CL4-612-010 | PWB,FRONT | a | b |
| | | O | MC1012 | 88-913-221-110 | FF-CABLE, 13P 1.25 220MM | a | b |
| | | O | MC1013 | 8C-CL4-011-010 | KEY,PLAY | a | b |
| | | X | MC1014 | M8-3ZG-38K-030 | 3ZG-3 E13NM | a | b |
| | | O | MC1015 | 8C-CL4-012-010 | KEY,SKIP | a | b |
| | | O | MC1016 | 8C-CL4-015-010 | CABI,FR K | a | . |
| | | O | MC1016 | 8C-CL4-001-010 | CABI,FR EZ | . | b |
| | | X | MC1017 | 8B-NF9-204-010 | CUSH, 11-8.5-2 | a | b |
| | | O | MC1018 | 8C-CL4-007-010 | KNOB,RTRY VOL | a | b |
| | | O | MC1019 | 8C-CL4-004-010 | PANEL,TRAY CD | a | b |
| | | X | MC1020 | 8C-CL4-201-010 | CHAS,MAIN | a | b |
| | | X | MC1021 | 87-064-080-010 | BINDER,WIRE | a | b |
| | | O | MC1022 | 87-003-317-010 | F-BEAD,15-25-15 E2515MRT | a | b |
| | | O | MC1023 | 87-085-185-010 | BUSHING,AC CORD(E) CM-22B | a | b |
| | ! | O | MC1024 | 8A-MTM-649-010 | AC CORD ASSY,EKH BLK | a | b |
| | | X | MC1025 | 8C-CL4-208-010 | HT-SINK,SUB B | a | b |
| | | X | MC1026 | A8-CZA-395-030 | CZA-3 EZM | a | b |
| | | X | MC1027 | 8C-CL4-611-010 | PWB,MAIN | a | b |
| | | O | MC1028 | 8C-CL4-652-010 | FF-CABLE,16P 1.00 | a | b |
| | | O | MC1029 | 88-906-101-110 | FF-CABLE, 6P 1.25 | a | b |
| | | O | MC1030 | 88-905-231-110 | FF-CABLE, 5P 1.25 230MM | a | b |
| | | X | MC1031 | 8C-CL4-620-110 | PWB,PT 4M | a | b |
| | ! | O | MC1032 | 8C-CL4-640-010 | PT,CCL-4 EZ | a | b |
| | | X | MC1033 | 8C-CL4-203-010 | HLDR,PWB PT | a | b |
| | | X | MC1034 | 8C-CL4-614-010 | PWB,AMP | a | b |
| | | X | MC1035 | 8C-CL4-207-010 | HT-SINK,SUB A | a | b |
| | | X | MC1036 | 8C-CL4-204-010 | HT-SINK,ASSY MAIN | a | b |
| | | X | MC1036a | 8C-CL4-206-010 | HT-SINK,FIN | a | b |
| | | X | MC1036b | 8C-CL4-205-010 | HT-SINK,MAIN | a | b |
| | | O | MC1037 | 8C-CL4-002-010 | CABI,REAR EZ | a | b |
| | | O | MC1038 | 8C-CL4-003-010 | PANEL,TOP | a | b |
| | | X | MC1039 | 8A-CY4-641-010 | TUBE,UL 16.0-80 BLK | a | b |
| | | O | MC1040 | 87-064-185-010 | HLDR,WIRE PVC 0.5 | a | b |
| | | X | MC1041 | 8C-CL4-211-010 | CUSH,G 6.5-6.5-6.5 W/ADH | a | b |
| | ! | O | MC1042 | 87-099-811-010 | PLUG,ADPTR CONV(K) | a | . |
| | | O | MC1A | 87-721-096-410 | QT2+3-10 W/O SLOT | a | b |
| | | O | MC1B | 87-067-579-010 | BVT2+3-8 W/O SLOT | a | b |
| | | O | MC1C | 88-AR1-217-010 | S-SCREW,BFT2+3-8 | a | b |
| | | O | MC1D | 87-B10-314-010 | BVIT3B+3-6 R W/O | a | b |
| | | O | MC1E | 87-B10-318-010 | BVIT3C+4-8 R W/O | a | b |
| | | O | MC1F | 87-NF4-224-010 | S-SCREW,IT3B+3-8 CU | a | b |
| | | O | MC1G | 87-B10-315-010 | BVIT3B+3-8 R W/O | a | b |
| | | O | MC1H | 87-067-703-010 | BVT2+3-10 W/O SL0T | a | b |
| | | O | MC1I | 87-067-660-010 | BVT2+3-8 W/O SL0T BLK | a | b |
| | | O | MC1J | 86-NF8-223-010 | W-P,4.15-6.9-0.25 W/ADH | a | b |

## COLOR NAME TABLE

| Basic color symbol | Color | Basic color symbol | Color | Basic color symbol | Color |
|---|---|---|---|---|---|
| B | Black | C | Cream | D | Orange |
| G | Green | H | Gray | L | Blue |
| LT | Transparent Blue | N | Gold | P | Pink |
| R | Red | S | Silver | ST | Titan Silver |
| T | Brown | V | Violet | W | White |
| WT | Transparent White | Y | Yellow | YT | Transparent Yellow |
| LM | Metallic Blue | LL | Light Blue | GT | Transparent Green |
| LD | Dark Blue | DT | Transparent Orange | GM | Metallic Green |
| YM | Metallic Yellow | DM | Metallic Orange | PT | Transparent Pink |
| LA | Aqua Blue | GL | Light Green | HT | Transparent Gray |
| HM | Metallic Gray | NH | Champagne Gold | M | Wood Pattern |

CD MECHANISM EXPLODED VIEW 1 / 2 <3ZG – 3 E13NM>



# CD MECHANISM PARTS LIST 1 / 2 <3ZG – 3 E13NM>

! = ⚠ SAFTY PARTS
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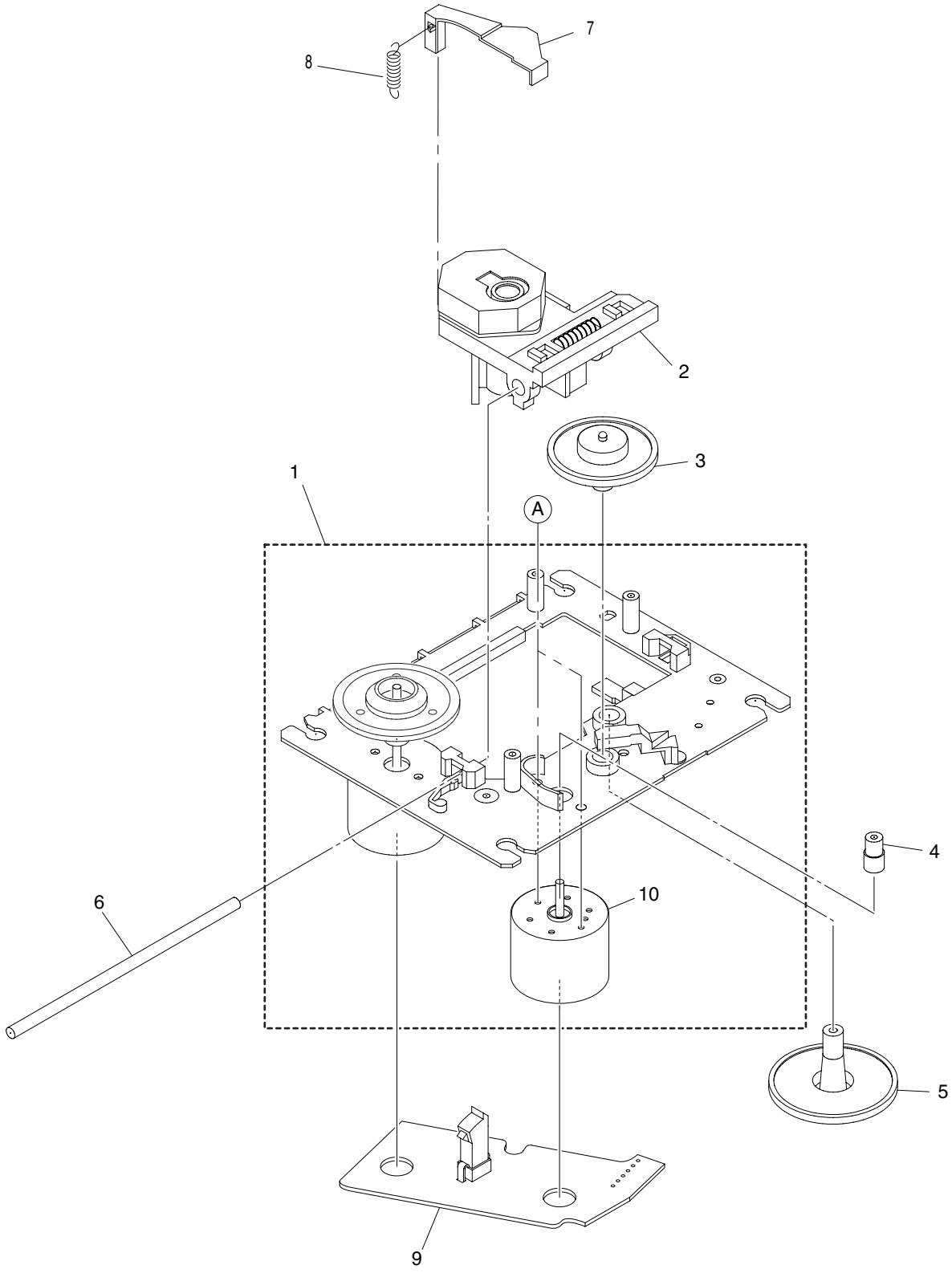
| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | 3ZG-3<br>E13NM |
| | | O | SC1001 | 83-ZG3-224-510 | HLDR M2 | a |
| | | O | SC1002 | 83-ZG3-228-710 | CHAS,L6 | a |
| | | O | SC1003 | 83-ZG3-208-010 | PULLEY,MOTOR | a |
| | | O | SC1004 | 83-ZG3-213-010 | LVR,SW | a |
| | | O | SC1005 | 83-ZG3-209-710 | CAM,SLIDE | a |
| | | O | SC1006 | 83-ZG3-207-010 | GEAR,TRAY | a |
| | | O | SC1007 | 83-ZG3-204-210 | GEAR,C | a |
| | | O | SC1008 | 83-ZG3-205-010 | GEAR,D | a |
| | | O | SC1009 | 83-ZG3-211-010 | PLATE,DISC | a |
| | | O | SC1010 | 83-ZG3-220-210 | GEAR,PULLEY 2 | a |
| | | O | SC1011 | 83-ZG3-214-010 | BELT,L | a |
| | | O | SC1012 | 83-ZG3-231-310 | TRAY,CD 3 | a |
| | | O | SC1013 | 83-ZG3-230-110 | HLDR,CHUCK 2 | a |
| | | O | SC1014 | 83-ZG3-604-010 | RING,MAG 2 | a |
| | | O | SC1015 | 86-ZG1-238-010 | HLDR,MAGNET 6ZG N | a |
| | | O | SC1016 | 86-ZG1-239-110 | PLATE,DISC PC | a |
| | | O | SC1017 | 87-045-305-010 | MOT,RF-500TB | a |
| | | O | SC1018 | 83-ZG3-225-010 | CUSH-G,MAIN A | a |
| | | X | SC1019 | 83-ZG3-603-010 | PWB,LOAD-A 27M | a |
| | | X | SC1020 | M8-3ZG-275-030 | 3ZG-2 E3NM | a |
| | | | | | | 3ZG-3<br>E13NM |
| | | O | SC1A | 87-067-945-110 | VFT2+3-12 (F10) | a |
| | | O | SC1B | 87-251-071-410 | U+2.6-4 | a |
| | | O | SC1C | 83-ZG3-235-010 | VFT2+2.6-8 | a |
| | | O | SC1D | 87-352-075-210 | VT2+2.6-10 | a |
| | | O | SC1E | 83-ZG3-217-010 | S-SCREW,GEAR D | a |
| | | O | SC1F | 81-ZG1-254-010 | S-SCREW,MECH HLDR | a |

CD MECHANISM EXPLODED VIEW 2 / 2 <3ZG – 2 E3NM>



# CD MECHANISM PARTS LIST 2 / 2 <3ZG – 2 E3NM>

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | 3ZG-2<br>E3NM |
| | | O | 001 | 83-ZG2-243-410 | CHAS ASSY,SHT | a |
| | | X | 001a | 83-ZG2-244-310 | CHAS,SHT | a |
| | | X | 001b | 83-ZG2-249-110 | TURN TABLE,C3 | a |
| | | X | 001c | 83-ZG2-241-110 | PLATE,C2 | a |
| | | O | 002 | 87-A90-836-010 | PICKUP,KSS-213F | a |
| | | O | 003 | 83-ZG2-235-010 | GEAR,A3 | a |
| | | O | 004 | 83-ZG2-236-010 | GEAR,MOTOR 3 | a |
| | | O | 005 | 83-ZG2-205-210 | GEAR,B | a |
| | | O | 006 | 83-ZG2-253-110 | SHAFT,SLIDE 5 | a |
| | | O | 007 | 83-ZG2-245-510 | LEVER,SHUTTER | a |
| | | O | 008 | 83-ZG2-250-210 | SPR-E,SHT 2 | a |
| | | X | 009 | 83-ZG2-609-010 | PWB,DRIVE-G 21M | a |
| | | O | 010 | 87-045-356-010 | MOT,RF-310TA 30 | a |
| | | O | A | 87-261-032-210 | V+2-3 | a |

# ACCESSORIES PARTS LIST

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL | |
|---|---|---|---|---|---|---|---|
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| PRINTED DU | | O | 1 | 8C-CL4-905-010 | IB,K(E)M XR-EM60 | a | . |
| PRINTED DU | | O | 1 | 8C-CL4-906-010 | IB,EZ(9L)M XR-EM61 | . | b |
| ACCESSORY | | O | 2 | 8C-CL2-701-010 | RC UNIT,RC-CAS04 | a | b |
| ACCESSORY | | O | 3 | 87-A92-346-010 | ANT,WIRE FM(FASTEN) | a | b |
| ACCESSORY | | O | 4 | 87-006-226-010 | ANT,LOOP AM | a | b |
| ELECTRICAL | ! | O | 5 | 87-099-811-010 | PLUG,ADPTR CONV(K) | a | . |

# OTHER PARTS LIST (CX – LEM60 / CX – LEM61)

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL | |
|---|---|---|---|---|---|---|---|
| | | | | | | CX-LEM60 KSM | CX-LEM61 EZSM |
| LBL,POP | | X | | 8C-CL4-970-010 | LBL,POP K | a | b |
| PACKING DU | | X | | 87-B40-093-010 | BAG,PV 0.04-450-650 PL | a | b |
| PACKING DU | | X | | 8C-CL4-853-010 | BOX,A | a | b |
| PACKING DU | | X | | 8C-CL4-851-010 | CUSHION,FRONT AEM | a | b |
| PACKING DU | | X | | 8C-CL4-852-010 | CUSHION,REAR AEM | a | b |
| PACKING DU | | X | | 93-324-066-010 | SH,FOAMED-MAT 0.31-500-300 | a | b |
| PACKING DU | | X | | 87-B40-334-010 | BAG,PV 0.03-120-400 | a | . |
| PRINTED DU | | X | | 87-B40-085-010 | BAG,PV 0.04-200-350 PL | a | b |
| PRINTED DU | | X | | 87-B50-079-010 | LIST,FACILITY(B)-0007 | a | b |
| PRINTED DU | | X | | 87-056-168-010 | SH,CAUTION INF-WARR(EC) | a | b |
| | | X | | 87-069-033-010 | CABLE,TIE | a | b |
| | | X | | 87-B40-281-010 | LBL,BAR-CODE A 35X8 | a | b |
| | | X | | 87-057-995-010 | LBL,CAUTION EFSD | a | b |
| | | X | | 87-057-961-010 | LBL,CAUTION TRIANGLE | a | b |
| | | X | | 8C-CL4-210-010 | SH,CHAS W/ADH | a | b |
| | | X | | 8C-CL4-013-010 | SH,FL | a | b |
| | | X | | 80-XV1-218-010 | CUSH-S,PWB | a | b |
| | | X | | 88-121-123-080 | RES,12K-1/8W J | a | b |
| | | X | | 8C-CL4-021-010 | LBL,SPEC KM | a | . |
| | | X | | 8C-CL4-020-010 | LBL,SPEC EZM | . | b |

# OTHER PARTS LIST (CZA – 3)

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | CZA-3<br>EZM |
| ASSY CODE | | X | | A8-CZA-395-030 | CZA-3 EZM | a |
| TUNER | | X | | 8C-ZA3-601-010 | PWB,TUNER KEZ 6M | a |
| TUNER | | X | | 8C-ZA3-618-010 | SHLD-CASE,CZA-3 EZ S | a |

# OTHER PARTS LIST (3ZG – 3)

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | 3ZG-3<br>E13NM |
| ASSY CODE | | X | | M8-3ZG-38K-030 | 3ZG-3 E13NM | a |
| ELECT | | X | | 81-MX4-700-010 | SHIELD CORE,MOT S | a |
| PACKING | | X | | 83-ZG3-599-010 | BAG,PV ANTI 390X265 | a |

# OTHER PARTS LIST (3ZG – 2)

! = ⚠ SAFTY PARTS
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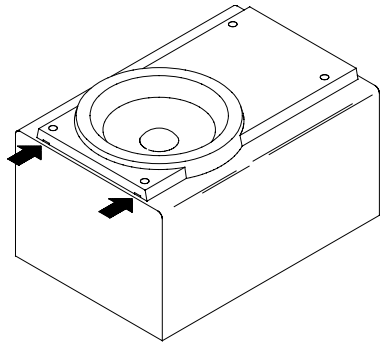
| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | 3ZG-2<br>E3NM |
| ASSY CODE | | X | | M8-3ZG-275-030 | 3ZG-2 E3NM | a |

# GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

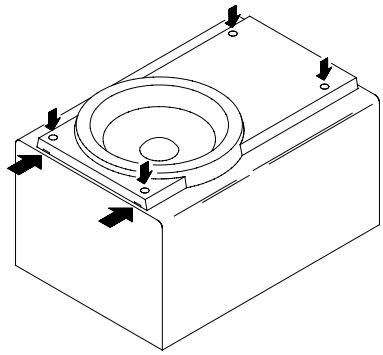
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



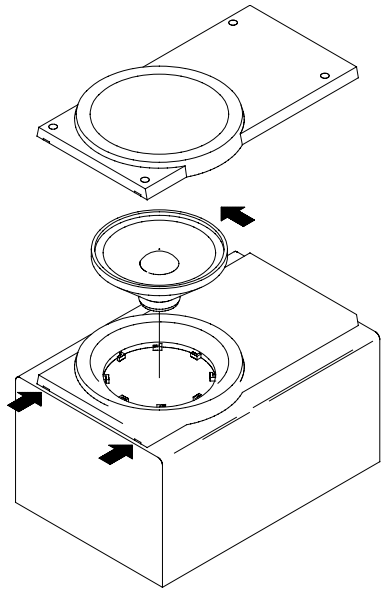
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

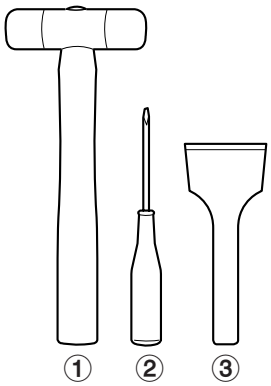


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4




TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

## How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

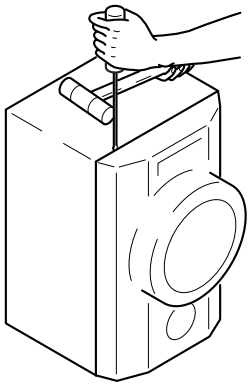


Fig-1

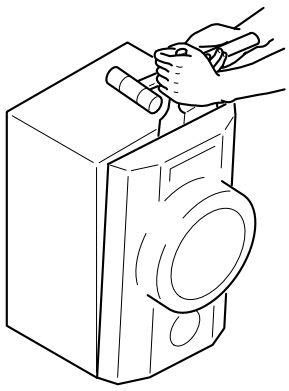


Fig-2

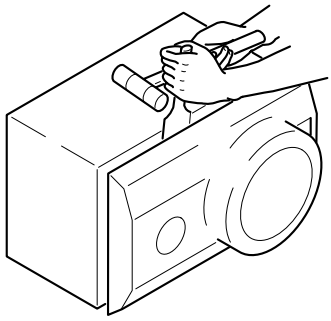


Fig-3

## How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

# SPEAKER PARTS LIST (SX – LEM60)

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| UNIT-NAME | ! | C | REF-NO | PARTS-NO | PARTS-NAME | SUFFIX&MODEL |
|---|---|---|---|---|---|---|
| | | | | | | SX-SLEM60 YJMN |
| OTHERS | | O | 1 | 8A-CJ5-415-010 | TERMINAL, | a |
| OTHERS | | O | 2 | 8B-CP5-610-010 | CORD,SPKR | a |
| OTHERS | | X | 3 | 8B-CPX-001-010 | TUBE,40 | a |
| OTHERS | | X | 4 | 8B-CPX-005-010 | GRILLE,FRAME | a |
| OTHERS | | X | 5 | 8B-CPX-009-010 | CUSHION,FELT | a |
| OTHERS | | X | 6 | 8B-CPX-016-010 | BADGE,AIWA 27.5 | a |
| OTHERS | | O | 7 | 8C-CP4-001-010 | RING,W | a |
| OTHERS | | O | 8 | 8C-CP4-002-010 | RING,TW | a |
| OTHERS | | O | 9 | 8C-CP4-004-010 | GRILLE,FRAME ASSY | a |
| OTHERS | | X | 10 | 8C-CP4-005-010 | NET, | a |
| OTHERS | | X | 11 | 8C-CP4-006-010 | LBL,SPEC YJ | a |
| OTHERS | | O | 12 | 8C-CP4-602-010 | SPKR, W 120 25/2 | a |
| OTHERS | | O | 13 | 8C-CP4-604-010 | SPKR, T 25 25/2 | a |
| OTHERS | | X | 14 | 8C-CP4-003-010 | CABI,M | a |
| PACKING DU | | X | 15 | 8C-CP4-851-010 | CUSHION,ASSY-TTT | a |
| ASS'Y CODE | | X | 16 | PC-CP4-917-070 | SX-SLEM60 YJMN | a |

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